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 NEWS  2  Mar 13  METADEX, EMA, MATBUS: New Display Formats
 NEWS  3  Mar 13  Text Terms Give SMARTracker More Power and Precision
 NEWS  4  Mar 13  Retrieve CAS Abbreviations Automatically with SET
                  ABBREVIATION
 NEWS  5  Mar 13  More Highlighting Options with SET HIGHLIGHT RN
 NEWS  6  Mar 13  Separate Incomplete Iterations from your CASREACT
                  Answer Sets
 NEWS  7  Mar 13  Meeting Abstracts for San Francisco ACS meeting
                  Now in CAplus
 NEWS  8  Mar 28  EUROPATFULL - European Patents Full Text File

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 NEWS  INTER  General Internet Information
 NEWS  LOGIN  Welcome Banner and News Items
 NEWS  PHONE  Direct Dial and Telecommunication Network Access to STN
 NEWS  WWW    CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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FILE 'HOME' ENTERED AT 15:37:33 ON 14 APR 1997

=>
=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.15       0.15

FILE 'REGISTRY' ENTERED AT 15:37:39 ON 14 APR 1997
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STRUCTURE FILE UPDATES:  13 APR 97  HIGHEST RN 188288-36-0
DICTIONARY FILE UPDATES: 13 APR 97  HIGHEST RN 188288-36-0

TSCA INFORMATION NOW CURRENT THROUGH DECEMBER 1996

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

=>
Uploading 669389.str
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L1 STRUCTURE UPLOADED

=> d l1
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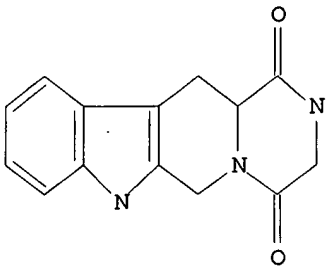
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
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SAMPLE SCREEN SEARCH COMPLETED - 36 TO ITERATE
100.0% PROCESSED 36 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

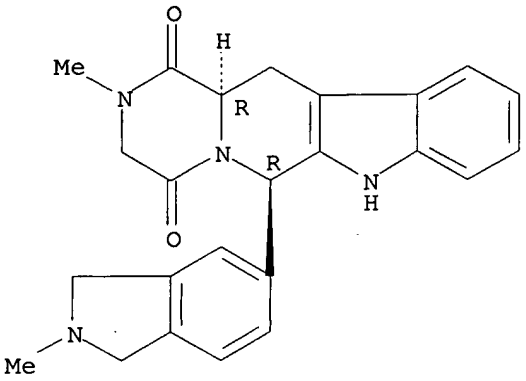
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 360 TO 1080
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> d scan l2

L2 4 ANSWERS REGISTRY COPYRIGHT 1997 ACS
IN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(2,3-dihydro-2-methyl-1H-isoindol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI)
MF C24 H24 N4 O2

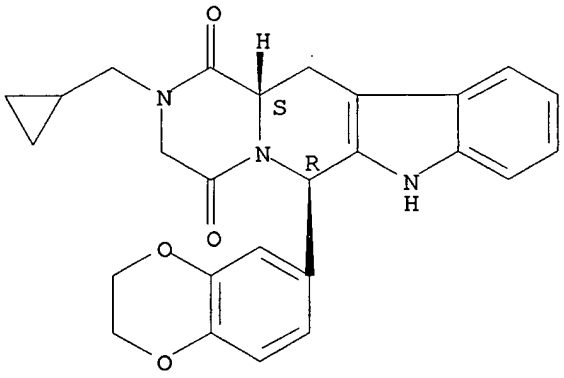
Absolute stereochemistry. Rotation (+).



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

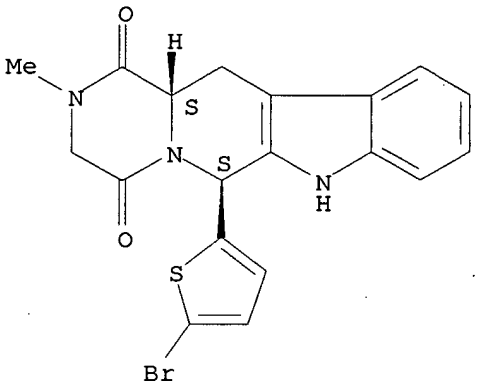
L2 4 ANSWERS REGISTRY COPYRIGHT 1997 ACS
IN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
2-(cyclopropylmethyl)-6-(2,3-dihydro-1,4-benzodioxin-6-yl)-
2,3,6,7,12,12a-hexahydro-, cis- (9CI)
MF C26 H25 N3 O4

Relative stereochemistry.



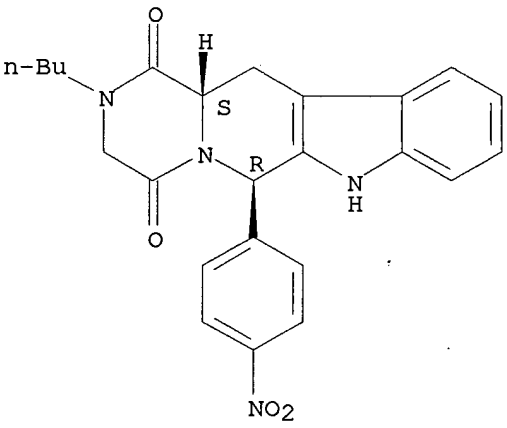
L2 4 ANSWERS REGISTRY COPYRIGHT 1997 ACS
IN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(5-bromo-2-thienyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI)
MF C19 H16 Br N3 O2 S

Relative stereochemistry.



L2 4 ANSWERS REGISTRY COPYRIGHT 1997 ACS
IN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
2-butyl-2,3,6,7,12,12a-hexahydro-6-(4-nitrophenyl)-, cis- (9CI)
MF C24 H24 N4 O4

Relative stereochemistry.



ALL ANSWERS HAVE BEEN SCANNED

=> s l1 ful
FULL SEARCH INITIATED 15:38:54
FULL SCREEN SEARCH COMPLETED - 694 TO ITERATE
100.0% PROCESSED 694 ITERATIONS 127 ANSWERS
SEARCH TIME: 00.00.02

L3 127 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	110.64	110.79

FILE 'CAPLUS' ENTERED AT 15:39:06 ON 14 APR 1997
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FILE COVERS 1967 - 14 Apr 1997 VOL 126 ISS 15
FILE LAST UPDATED: 14 Apr 1997 (970414/ED)

To help control your online searching costs, consider using the HCAplus file when using the FSEARCH command or when conducting SmartSELECT searches with large numbers of terms.

Some chemical substances have deleted CAS Registry Numbers. To ensure that you are using the most current CAS Registry Number, and for a more complete search, start your CAS Registry Number search in the REGISTRY file. Then use the L-number answer set from REGISTRY as a search term in CAplus.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d his

     (FILE 'HOME' ENTERED AT 15:37:33 ON 14 APR 1997)

     FILE 'REGISTRY' ENTERED AT 15:37:39 ON 14 APR 1997
L1             STRUCTURE UPLOADED
L2           4 S L1
L3         127 S L1 FUL

     FILE 'CAPLUS' ENTERED AT 15:39:06 ON 14 APR 1997

=> s l3
L4          14 L3

=> d l4 1-14 ibib abs hitstr

L4   ANSWER 1 OF 14  CAPLUS  COPYRIGHT 1997 ACS
ACCESSION NUMBER:         1997:215770  CAPLUS
DOCUMENT NUMBER:          126:199582
TITLE:                    Preparation of pyrazino[2',1':6,1]pyrido[3,4-
                          b]indole-1,4-diones as cGMP-specific
                          phosphodiesterase inhibitors
INVENTOR(S):              Daugan, Alain Claude-Marie; Gellibert, Francoise
PATENT ASSIGNEE(S):       Laboratoire Glaxo Wellcome S.A., Fr.; Daugan,
                          Alain Claude-Marie; Gellibert, Francoise
SOURCE:                   PCT Int. Appl., 24 pp.
                          CODEN: PIXXD2

                          NUMBER                  DATE
                          --------------          ------
PATENT INFORMATION:       WO 9703985 A1           970206
DESIGNATED STATES:        W:  AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH,
                          CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS,
                          JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV,
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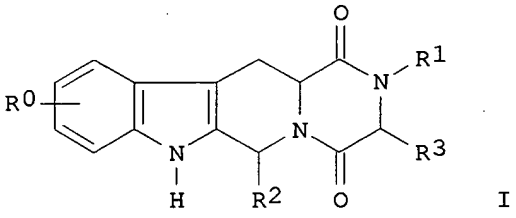
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, NL, PT, SE

APPLICATION INFORMATION: WO 96-EP3025 960711
PRIORITY APPLN. INFO.: GB 95-14465 950714
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE(S): CASREACT 126:199582; MARPAT 126:199582
GI



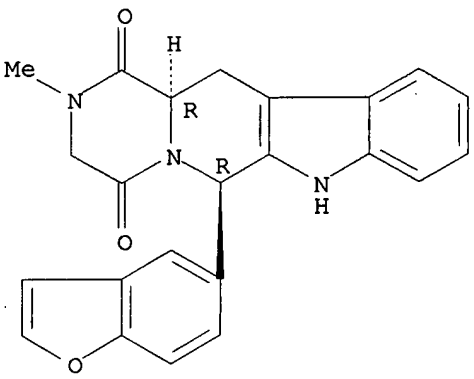
I

AB The title compds. [I; R0 = H, halo, C1-6 alkyl; R1 = H, C1-6 alkyl; R2 = (un)substituted benzofuranyl; R3 = H, C1-3 alkyl], useful as potent and selective inhibitors of cGMP-specific PDE, were prepd. and formulated. Thus, cyclization of (1R,3R)-Me 1,2,3,4-tetrahydro-1-(5-benzofuranyl)-2-chloroacetyl-9H-pyrido[3,4-b]indole-3-carboxylate with MeNH2 in MeOH/EtOH afforded (6R,12aR)-I [R0, R3 = H; R1 = Me; R2 = 5-benzofuranyl] which showed IC50 of 15 nM against cGMP-specific PDE in vitro, and AUC (area under curve of the fall in blood pressure) of 137 mm Hg.h in spontaneously hypertensive rats.

IT **187939-81-7P 187939-82-8P 187939-83-9P 187939-84-0P 187939-85-1P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-diones as cGMP-specific phosphodiesterase inhibitors)

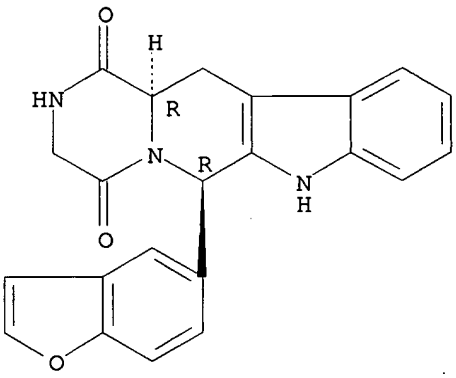
RN 187939-81-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry. Rotation (+).



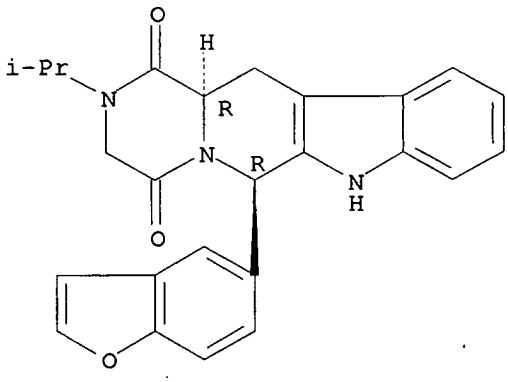
RN 187939-82-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry. Rotation (+).



RN 187939-83-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

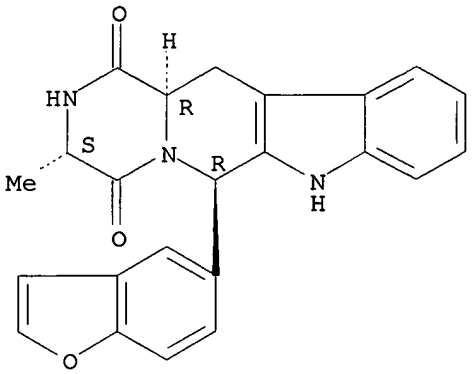
Absolute stereochemistry. Rotation (+).



RN 187939-84-0 CAPLUS

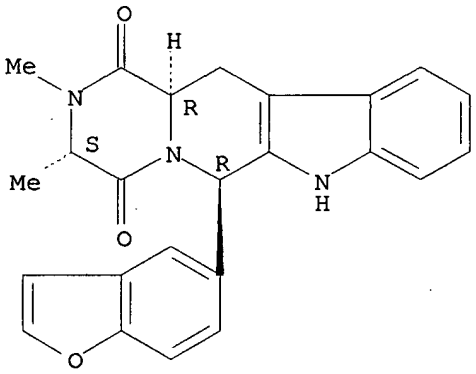
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry. Rotation (+).



RN 187939-85-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry. Rotation (+).



L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1997:215760 CAPLUS
DOCUMENT NUMBER: 126:203727
TITLE: Use of cGMP-phosphodiesterase inhibitors to treat impotence
INVENTOR(S): Daugan, Alain Claude-Marie
PATENT ASSIGNEE(S): Laboratoire Glaxo Wellcome S.A., Fr.; Daugan, Alain Claude-Marie
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2

	NUMBER	DATE
PATENT INFORMATION:	WO 9703675 A1	970206
DESIGNATED STATES:	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV,	

MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, NL, PT, SE

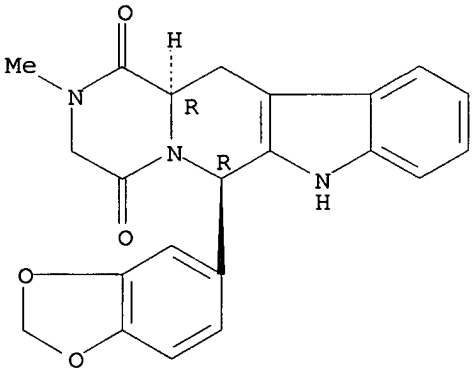
APPLICATION INFORMATION: WO 96-EP3024 960711
PRIORITY APPLN. INFO.: GB 95-14464 950714
DOCUMENT TYPE: Patent
LANGUAGE: English

AB Compds. such as (6R,12aR)-2,3,6,7,12,12a-hexahydro-2-methyl-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione, (3S,6R,12aR)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione, and physiol. acceptable salts and solvates thereof, can be used as cGMP-phosphodiesterase inhibitors in the treatment of impotence.

IT **171596-29-5P 171596-40-0P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cGMP-phosphodiesterase inhibitor formulations to treat impotence)

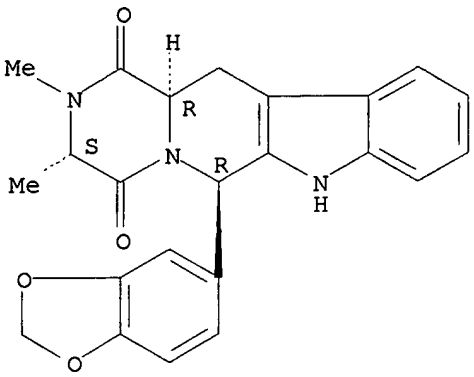
RN 171596-29-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



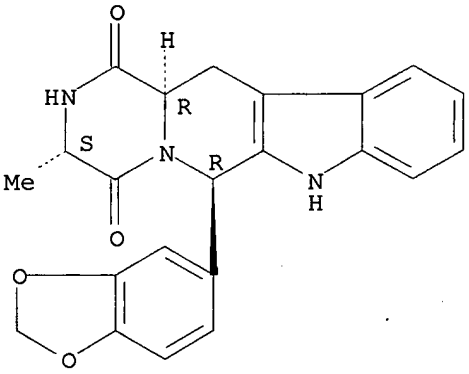
RN 171596-40-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, [3S-(3.alpha.,6.beta.,12a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT **187935-15-5P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cGMP-phosphodiesterase inhibitor formulations to treat impotence)
RN 187935-15-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-3-methyl-, [3S-(3.alpha.,6.beta.,12a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1997:101617 CAPLUS
DOCUMENT NUMBER: 126:108935
TITLE: Method of producing a solid dispersion of a poorly water-soluble drug
INVENTOR(S): Butler, James Matthew
PATENT ASSIGNEE(S): Glaxo Group Limited, UK; Butler, James Matthew
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2

	NUMBER	DATE
PATENT INFORMATION:	WO 9638131 A1	961205

Late

DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, NL, PT, SE

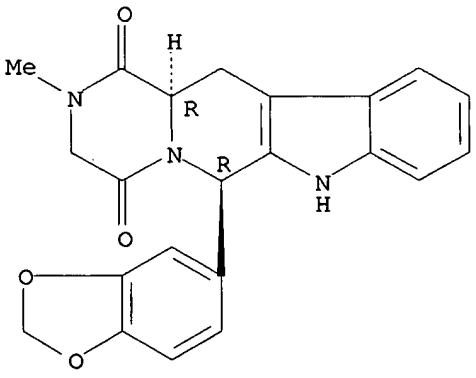
APPLICATION INFORMATION: WO 96-EP2299 960530
PRIORITY APPLN. INFO.: GB 95-11220 950602
DOCUMENT TYPE: Patent
LANGUAGE: English

AB A process for prepg. solid dispersions of poorly sol. drugs comprises (1) providing an intimate mixt. contg. the carrier or excipient and a nonaq. water-miscible solvent, and optionally, water, (2) mixing the intimate mixt. with the poorly water-sol. drug, and (3) pptg. the drug and the carrier or excipient. Specifically, solid dispersions of (6R,12aR)-2,3,6,7,12,12a-hexahydro-2-methyl-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione (I) and (+)-N-[1-(adamantanmethyl)-2,4-dioxo-5-phenyl-2,3,4,5-tetrahydro-1H-1,5-benzodiazepin-3-yl]-N'-phenylurea are described. I 1 g and hydroxypropyl Me cellulose phthalate 1 g were dissolved in a 9:1 mixt. of acetone/water (27 mL) and 0.25 M HCl 83 mL was added to obtain a ppt. The ppt. was filtered, washed with water, dried, and milled. A tablet contg. 100 mg ppt. was formulated.

IT **171596-29-5P**
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrazinopyridoindole deriv. in manuf. of solid dispersion of poorly water-sol. drugs)

RN 171596-29-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1995:986316 CAPLUS
DOCUMENT NUMBER: 124:55977

TITLE: Preparation of pyrazinopyridoindolediones as inhibitors of cyclic guanosine 3',5'-monophosphate specific phosphodiesterase

INVENTOR(S): Daugan, Alain Claude-Marie
PATENT ASSIGNEE(S): Laboratoires Glaxo S.A., Fr.

SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2

	NUMBER	DATE
PATENT INFORMATION:	WO 9519978 A1	950727
DESIGNATED STATES:	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US	
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG	
APPLICATION INFORMATION:	WO 95-EP183	950119
PRIORITY APPLN. INFO.:	GB 94-1090	940121

DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE(S): MARPAT 124:55977

Applicant's

GI For diagram(s), see printed CA Issue.

AB The title compds. I [R represents hydrogen, halogen or C1-6 alkyl; R1 represents hydrogen, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, haloC1-6alkyl, C3-8cycloalkyl, etc.; R2 represents an optionally substituted monocyclic arom. ring selected from benzene, thiophene, furan and pyridine or an optionally substituted bicyclic ring Q1 attached to the rest of the mol. via one of the benzene ring carbon atoms and wherein the fused ring A is a 5- or 6-membered ring which may be satd. or partially or fully unsatd. and comprises carbon atoms and optionally one or two heteroatoms selected from oxygen, sulfur and nitrogen; and R3 represents hydrogen or C1-3 alkyl, or R1 and R3 together represent a 3- or 4-membered alkyl or alkenyl chain] are prepd. In an in vitro test for inhibitory effect on cGMP-PDE, cis-2,3,6,7,12,12a-hexahydro-2-(4-pyridylmethyl)-6-(3,4-methylenedioxyphenyl)pyrazino[2',1':6,1]pyrido[3,4-b]indole-1,4-dione (prepn. given) showed IC50 of 10 nM.

IT **171488-01-0P 171488-02-1P 171488-03-2P**
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171488-07-6P 171488-08-7P 171488-09-8P
171488-10-1P 171488-11-2P 171488-12-3P
171488-13-4P 171488-14-5P 171488-15-6P
171488-16-7P 171488-17-8P 171488-18-9P
171488-19-0P 171488-20-3P 171488-21-4P
171488-22-5P 171488-23-6P 171488-24-7P
171488-25-8P 171488-26-9P 171488-27-0P
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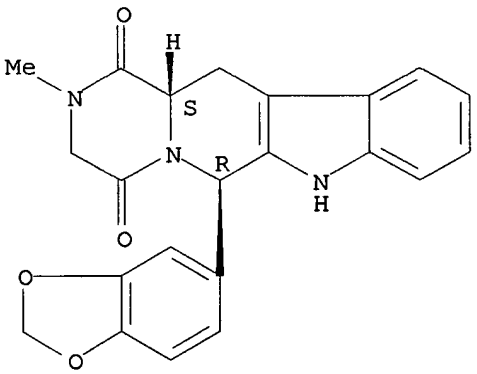
171488-73-6P 171488-74-7P 171488-75-8P
171488-76-9P 171488-77-0P 171488-78-1P
171488-79-2P 171488-80-5P 171488-81-6P
171488-82-7P 171488-83-8P 171488-84-9P
171488-85-0P 171488-86-1P 171488-87-2P
171488-88-3P 171488-89-4P 171488-90-7P
171488-91-8P 171488-92-9P 171488-93-0P
171488-94-1P 171488-95-2P 171488-96-3P
171488-97-4P 171488-98-5P 171488-99-6P
171489-00-2P 171489-02-4P 171489-03-5P
171489-04-6P 171596-27-3P 171596-28-4P
171596-29-5P 171596-30-8P 171596-31-9P
171596-32-0P 171596-33-1P 171596-34-2P
171596-35-3P 171596-36-4P 171596-37-5P
171596-38-6P 171596-40-0P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrazinopyridoindolediones as inhibitors of cyclic guanosine monophosphate specific phosphodiesterase)

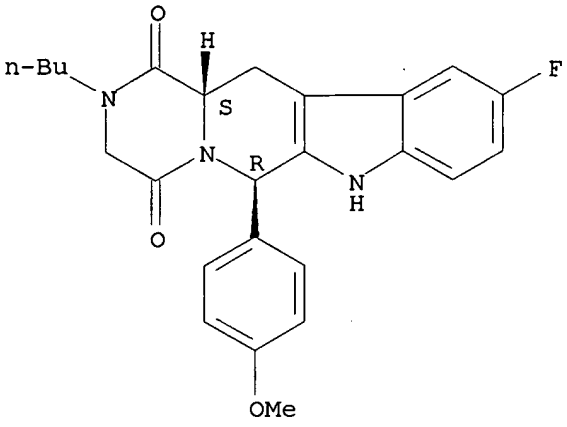
RN 171488-01-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



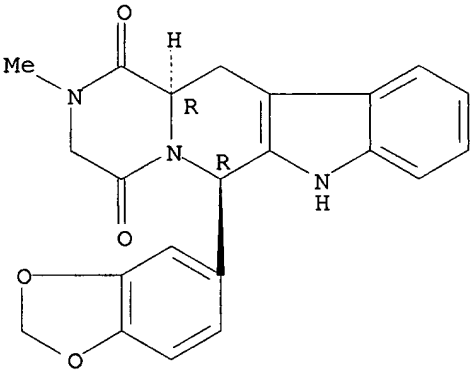
RN 171488-02-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-10-fluoro-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



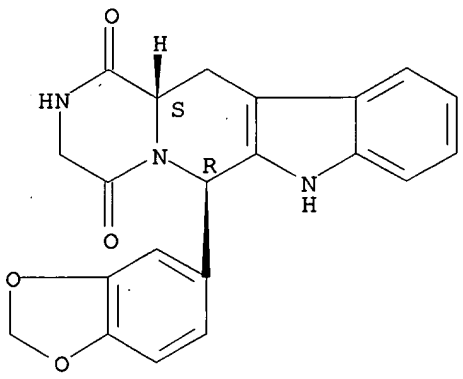
RN 171488-03-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



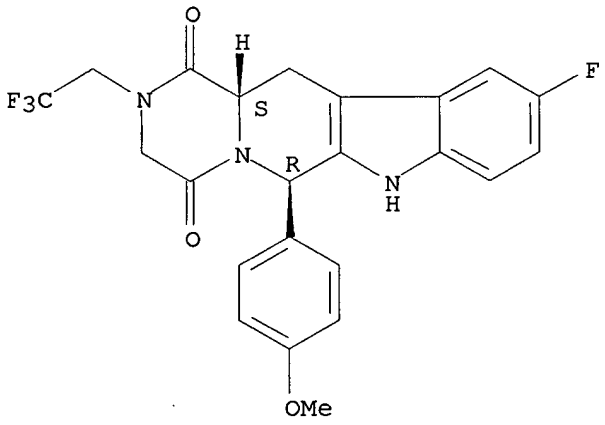
RN 171488-04-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



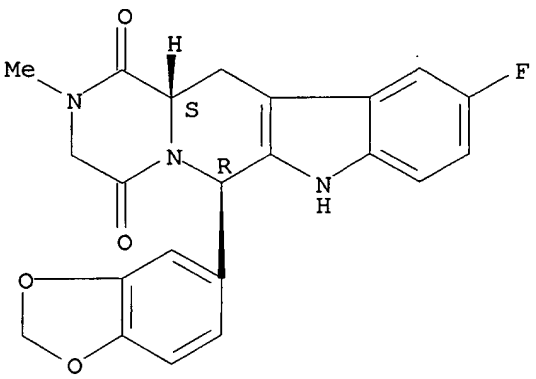
RN 171488-05-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 10-fluoro-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-2-(2,2,2-trifluoroethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



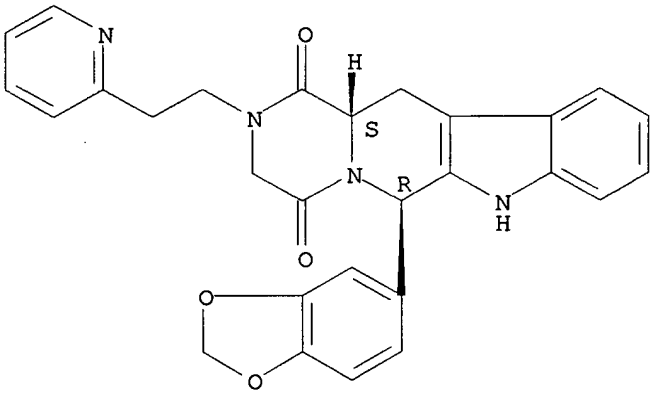
RN 171488-06-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-10-fluoro-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



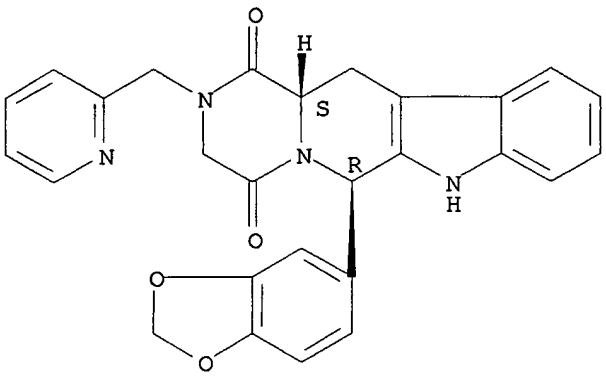
RN 171488-07-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-[2-(2-pyridinyl)ethyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



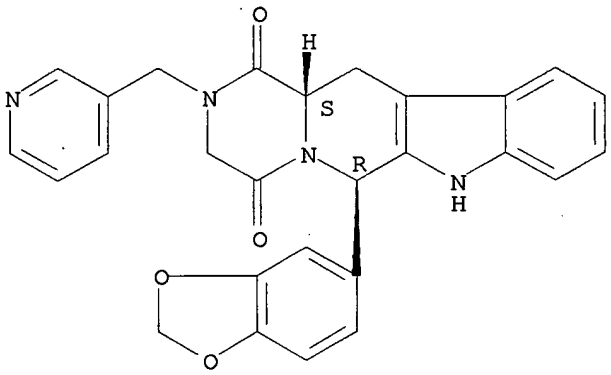
RN 171488-08-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-pyridinylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



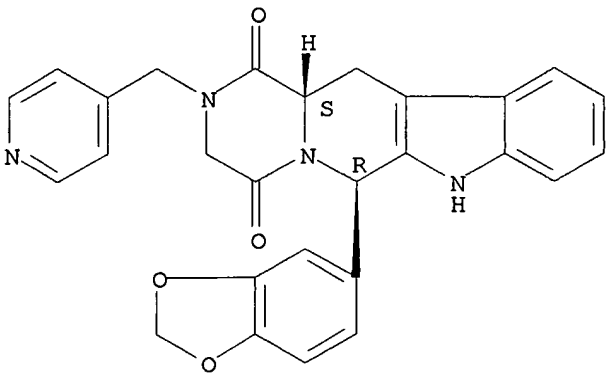
RN 171488-09-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(3-pyridinylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



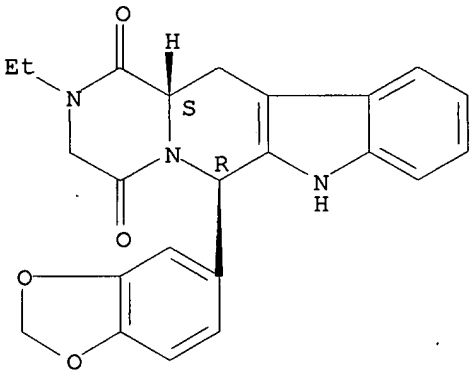
RN 171488-10-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(4-pyridinylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



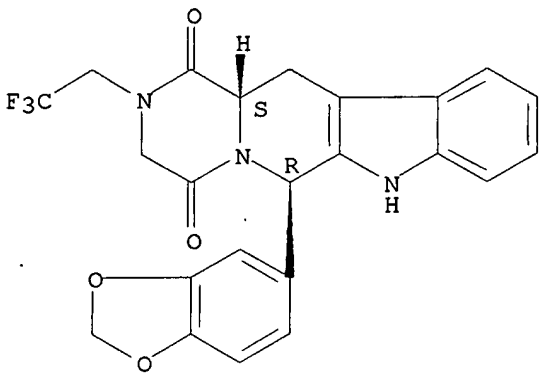
RN 171488-11-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-ethyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



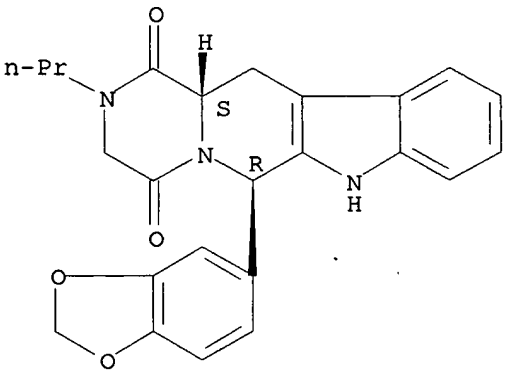
RN 171488-12-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2,2,2-trifluoroethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



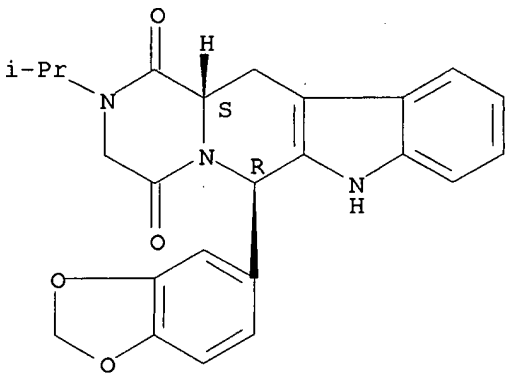
RN 171488-13-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-propyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



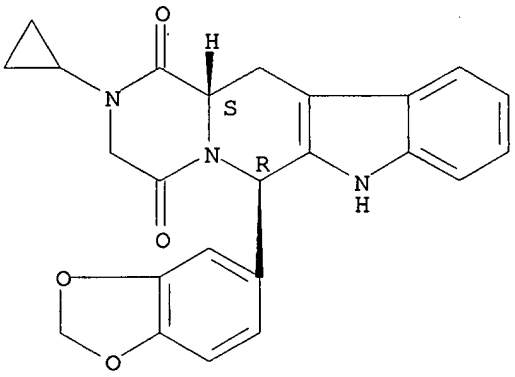
RN 171488-14-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



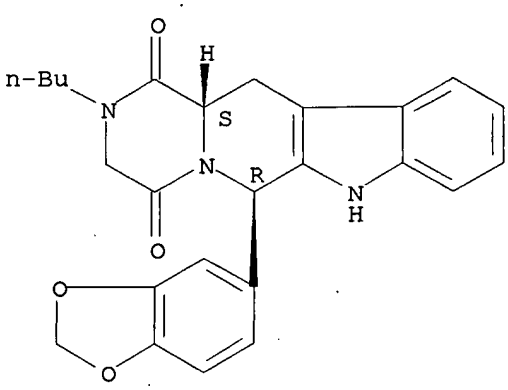
RN 171488-15-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopropyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



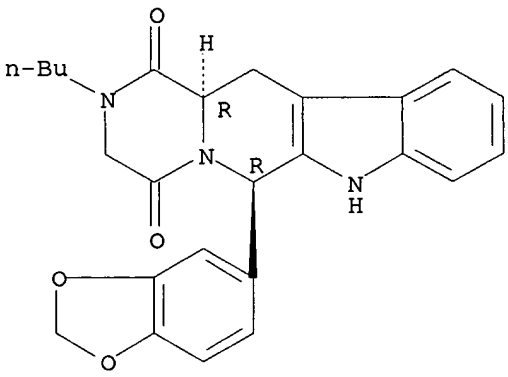
RN 171488-16-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-butyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



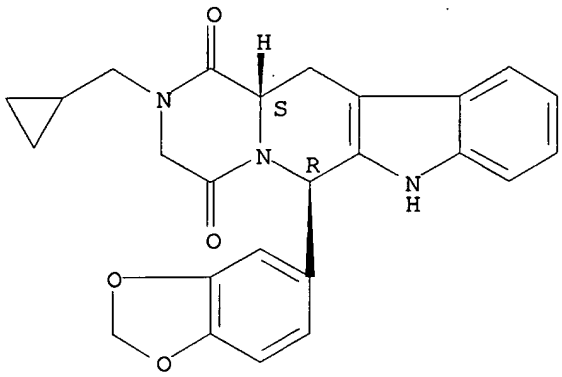
RN 171488-17-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-butyl-2,3,6,7,12,12a-hexahydro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



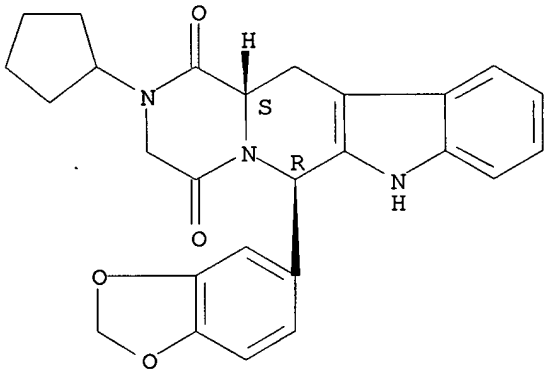
RN 171488-18-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



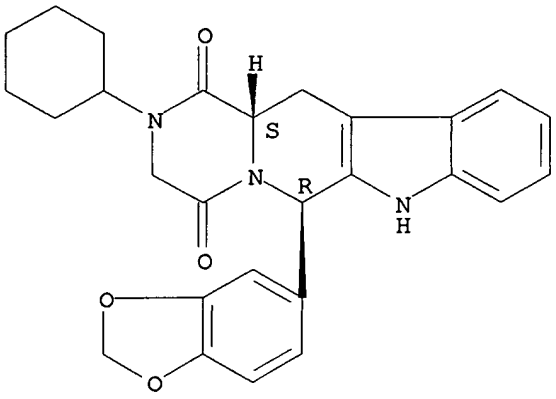
RN 171488-19-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



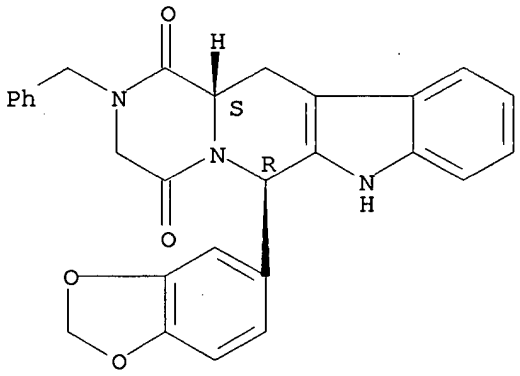
RN 171488-20-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-cyclohexyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



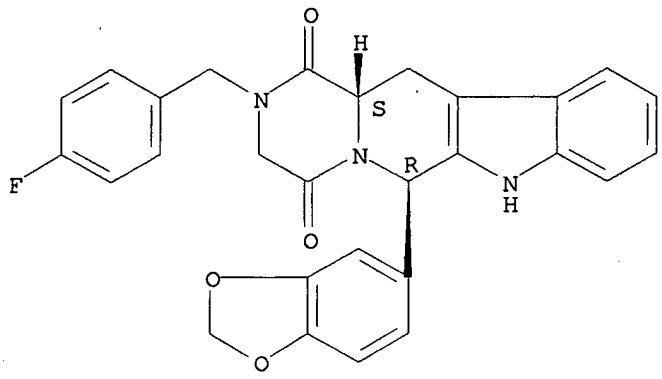
RN 171488-21-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



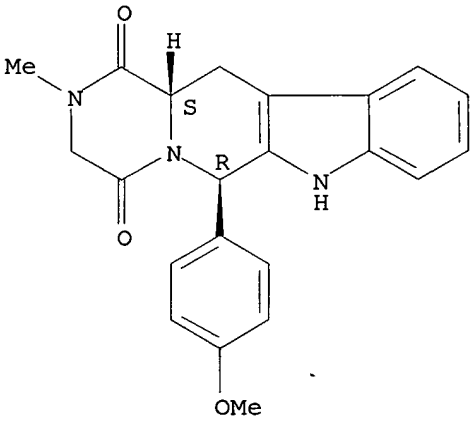
RN 171488-22-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[(4-fluorophenyl)methyl]-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



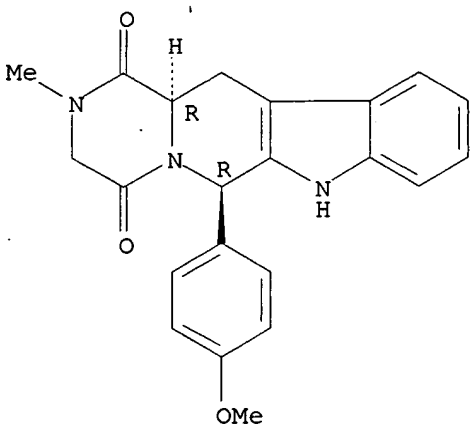
RN 171488-23-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



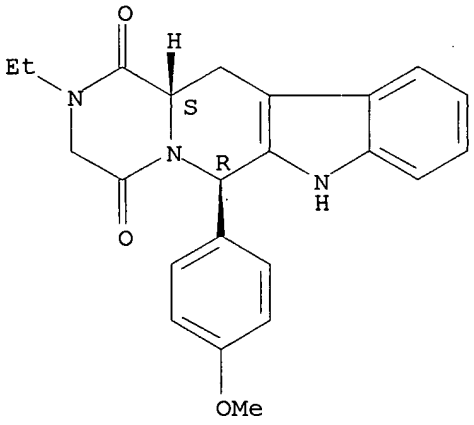
RN 171488-24-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-2-methyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



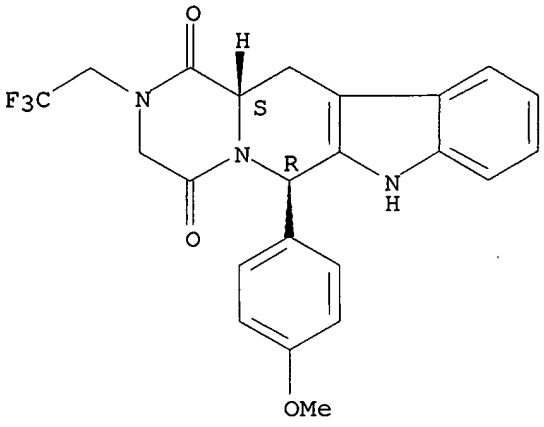
RN 171488-25-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-ethyl-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



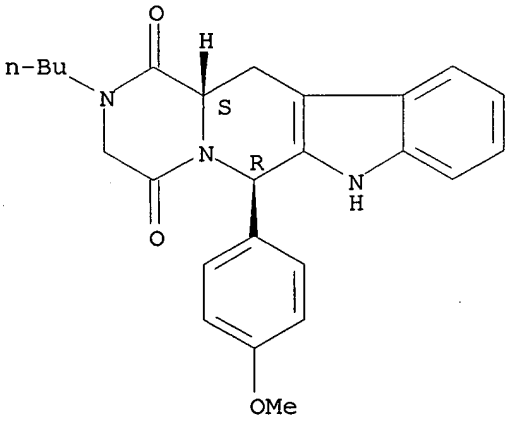
RN 171488-26-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-2-(2,2,2-trifluoroethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



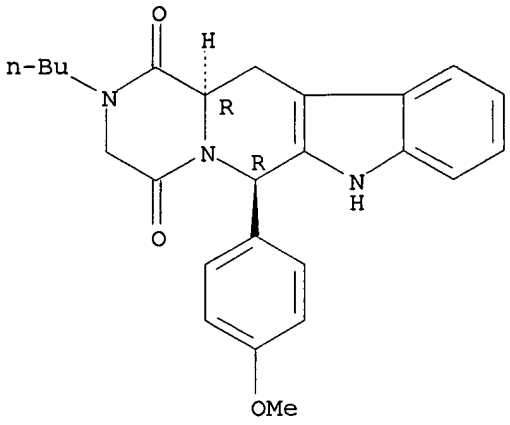
RN 171488-27-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



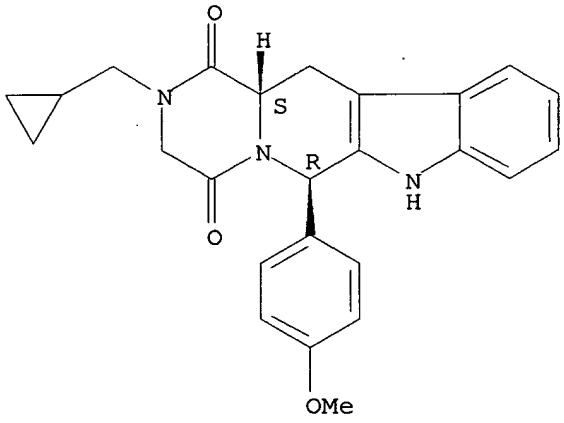
RN 171488-28-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



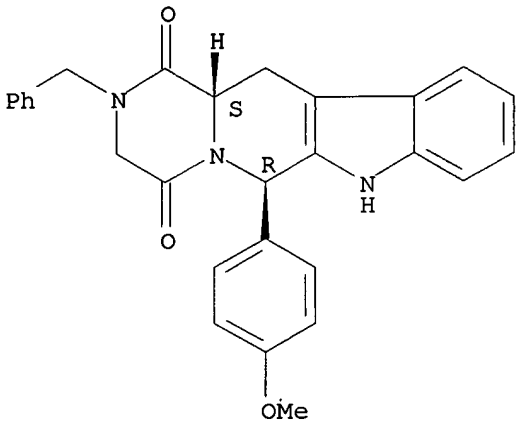
RN 171488-29-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



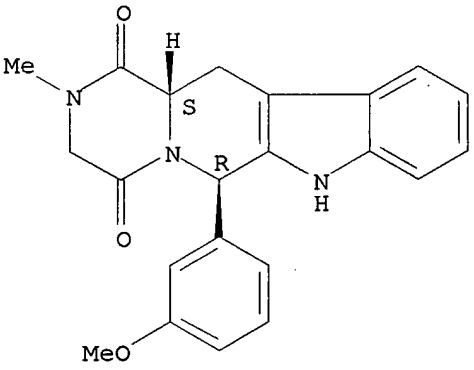
RN 171488-30-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-2-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



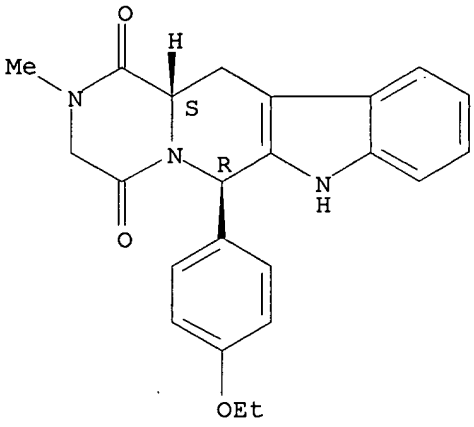
RN 171488-31-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(3-methoxyphenyl)-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



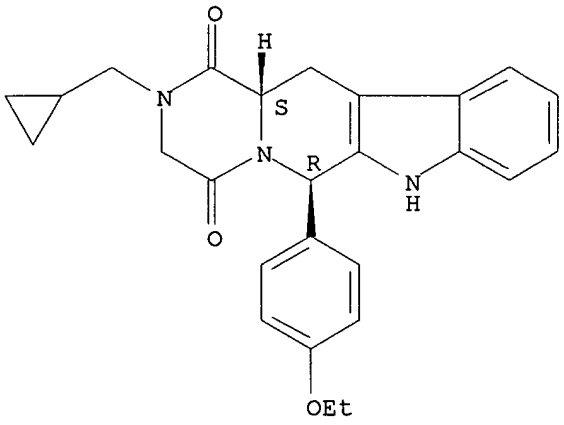
RN 171488-32-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(4-ethoxyphenyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



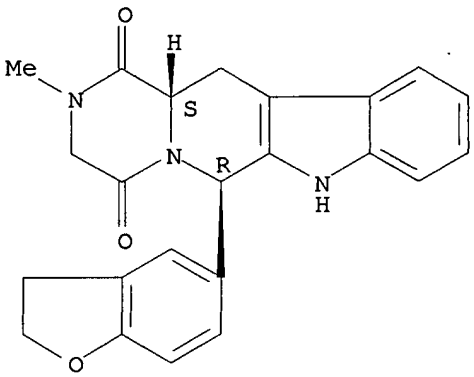
RN 171488-33-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
2-(cyclopropylmethyl)-6-(4-ethoxyphenyl)-2,3,6,7,12,12a-hexahydro-,
cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



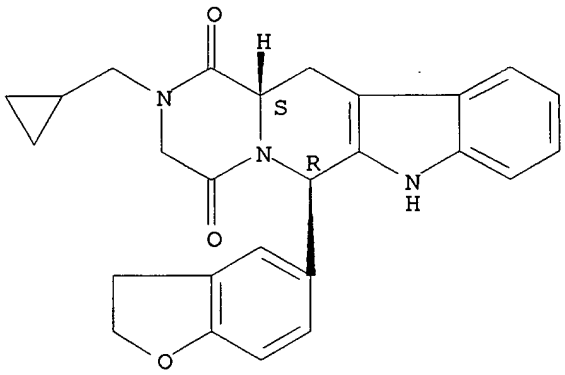
RN 171488-34-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(2,3-dihydro-5-benzofuranyl)-2,3,6,7,12,12a-hexahydro-2-methyl-,
cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



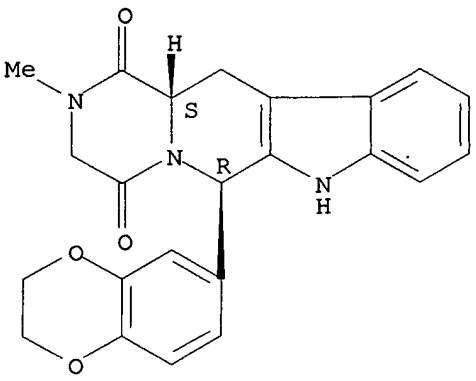
RN 171488-35-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-6-(2,3-dihydro-5-benzofuranyl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



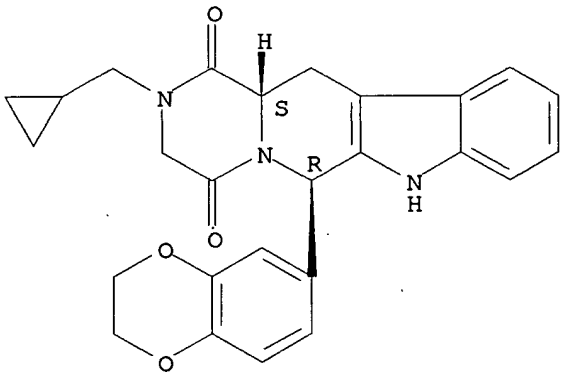
RN 171488-36-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(2,3-dihydro-1,4-benzodioxin-6-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



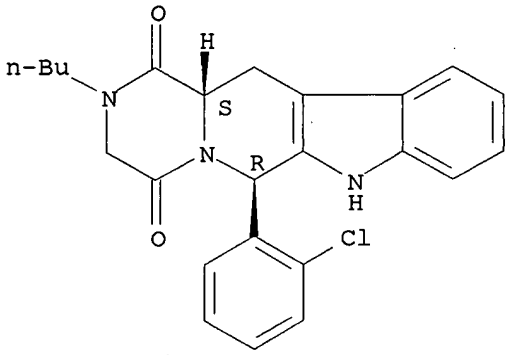
RN 171488-37-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-6-(2,3-dihydro-1,4-benzodioxin-6-yl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



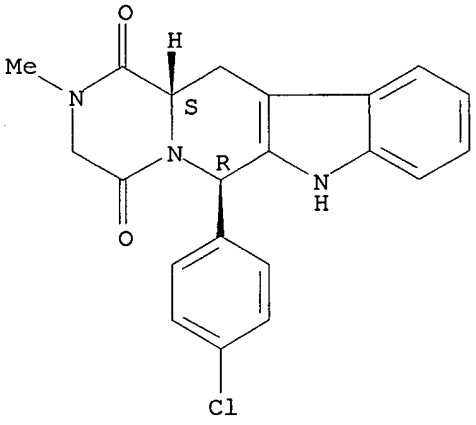
RN 171488-38-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-6-(2-chlorophenyl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



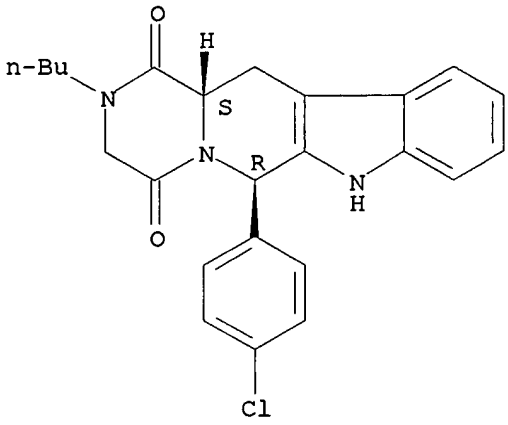
RN 171488-39-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(4-chlorophenyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



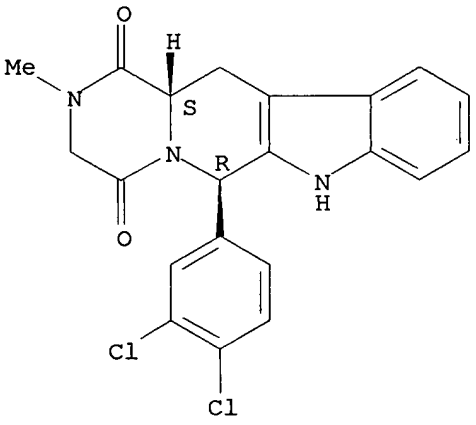
RN 171488-40-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-6-(4-chlorophenyl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



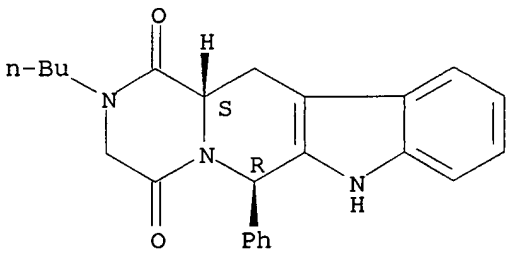
RN 171488-41-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3,4-dichlorophenyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



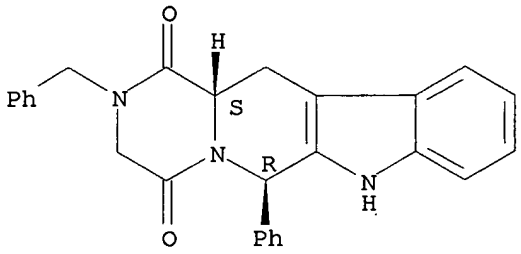
RN 171488-42-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



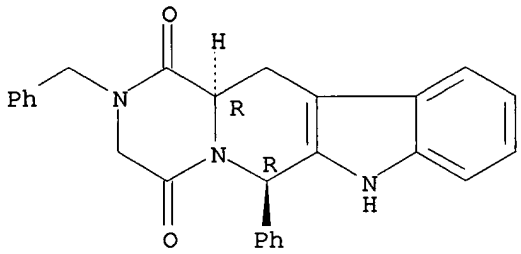
RN 171488-43-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-phenyl-2-(phenylmethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



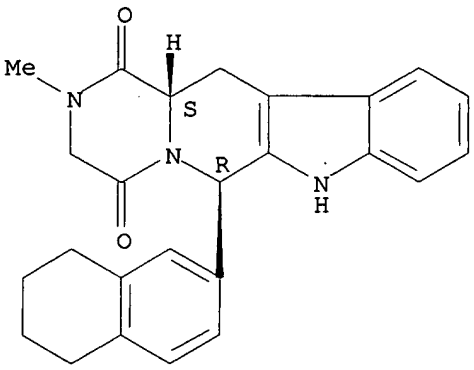
RN 171488-44-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-phenyl-2-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



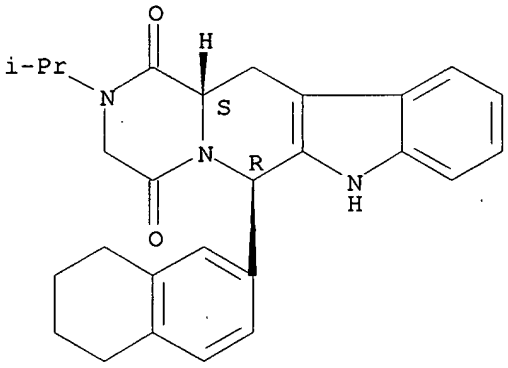
RN 171488-45-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(5,6,7,8-tetrahydro-2-naphthalenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



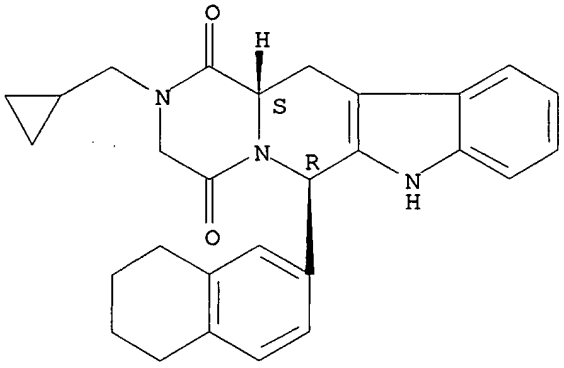
RN 171488-46-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-6-(5,6,7,8-tetrahydro-2-naphthalenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



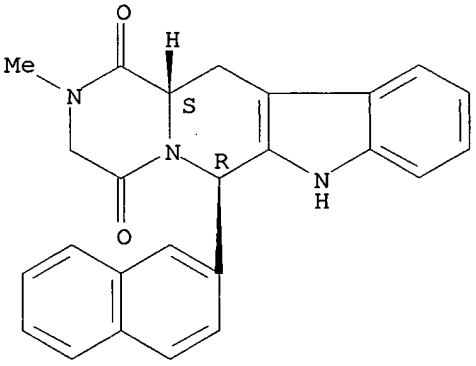
RN 171488-47-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-6-(5,6,7,8-tetrahydro-2-naphthalenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



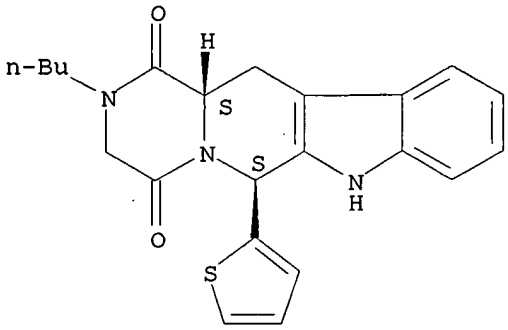
RN 171488-48-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(2-naphthalenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



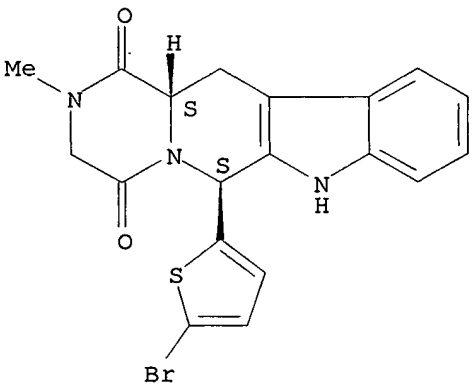
RN 171488-49-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(2-thienyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



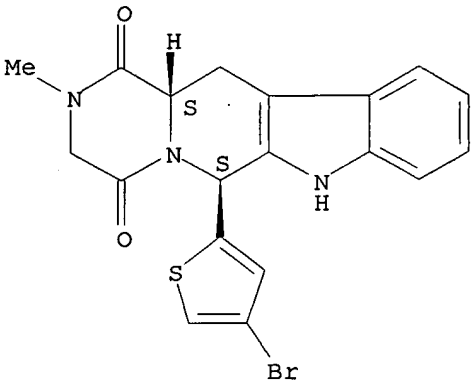
RN 171488-50-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(5-bromo-2-thienyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



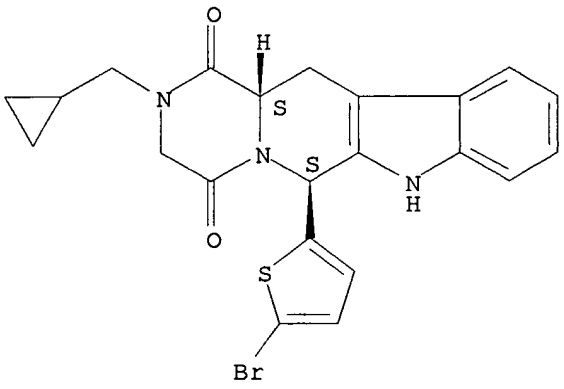
RN 171488-51-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(4-bromo-2-thienyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



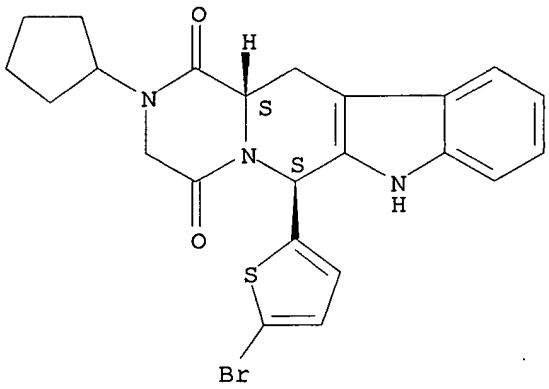
RN 171488-52-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(5-bromo-2-thienyl)-2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



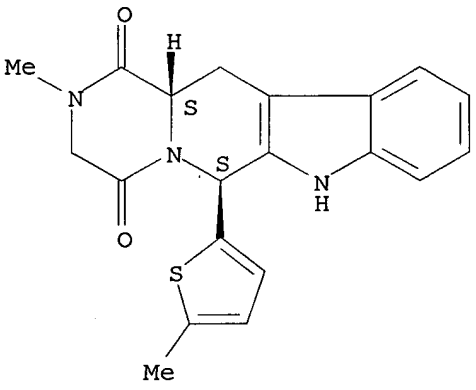
RN 171488-53-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(5-bromo-2-thienyl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



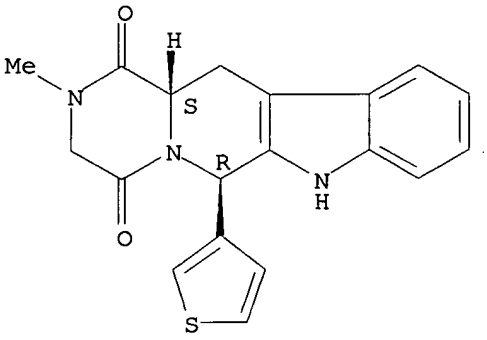
RN 171488-54-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(5-methyl-2-thienyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



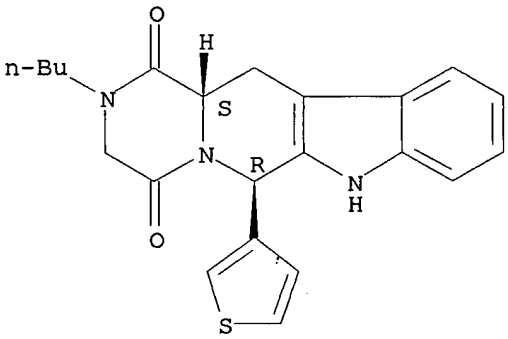
RN 171488-55-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(3-thienyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



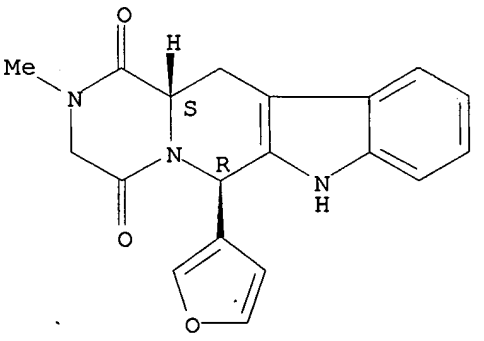
RN 171488-56-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(3-thienyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



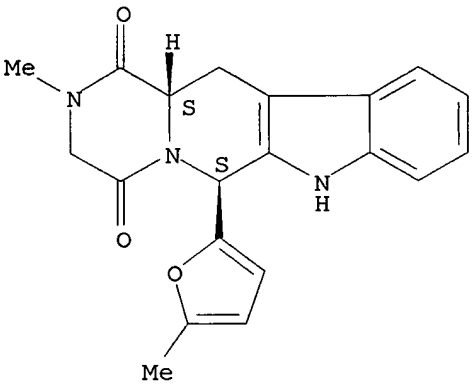
RN 171488-57-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3-furanyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



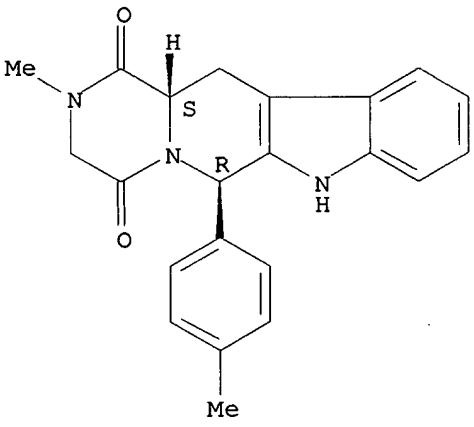
RN 171488-58-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(5-methyl-2-furanyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



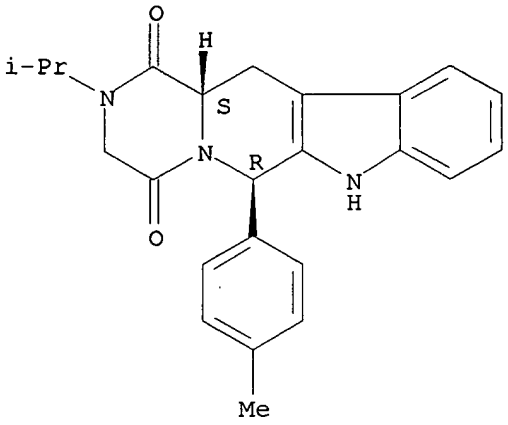
RN 171488-59-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(4-methylphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



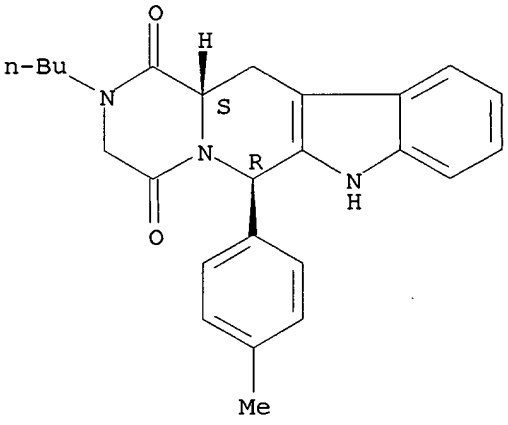
RN 171488-60-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-6-(4-methylphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



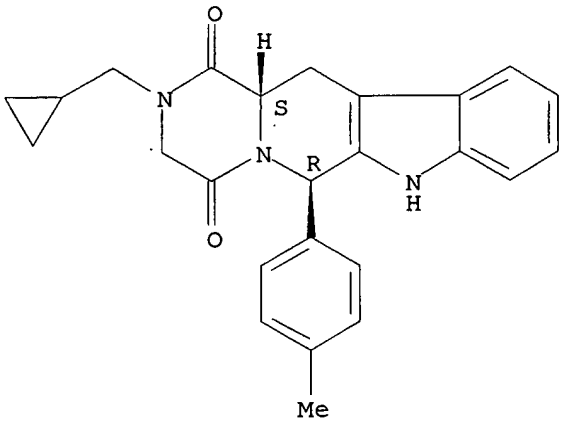
RN 171488-61-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(4-methylphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



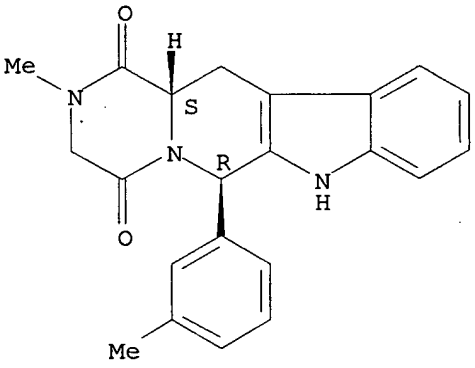
RN 171488-62-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-6-(4-methylphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



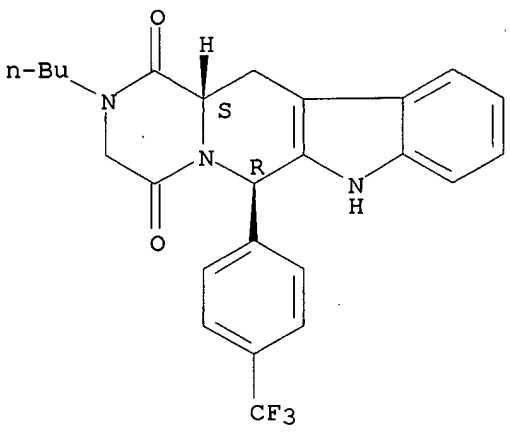
RN 171488-63-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(3-methylphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



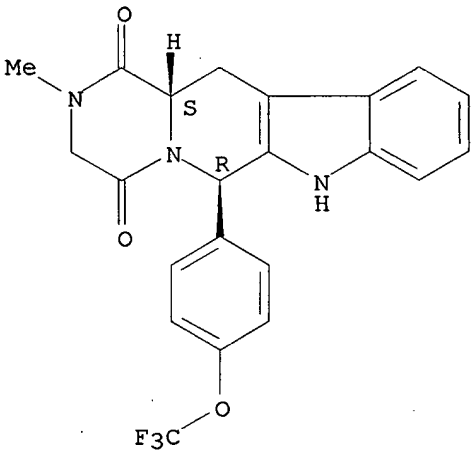
RN 171488-64-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-[4-(trifluoromethyl)phenyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



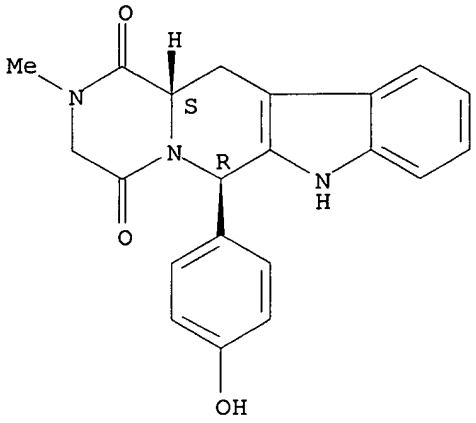
RN 171488-65-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-[4-(trifluoromethoxy)phenyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



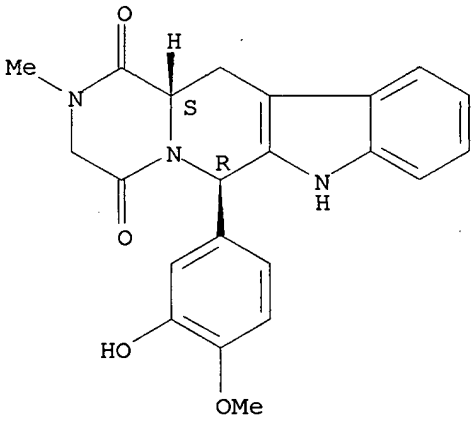
RN 171488-66-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-hydroxyphenyl)-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



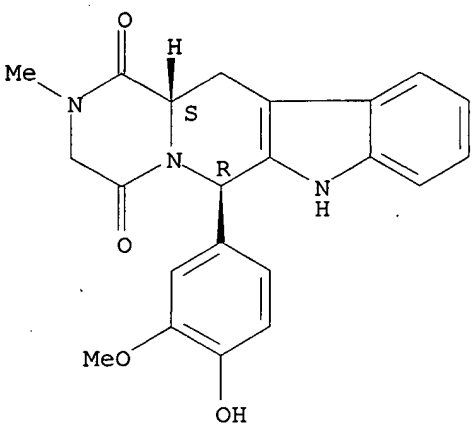
RN 171488-67-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(3-hydroxy-4-methoxyphenyl)-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



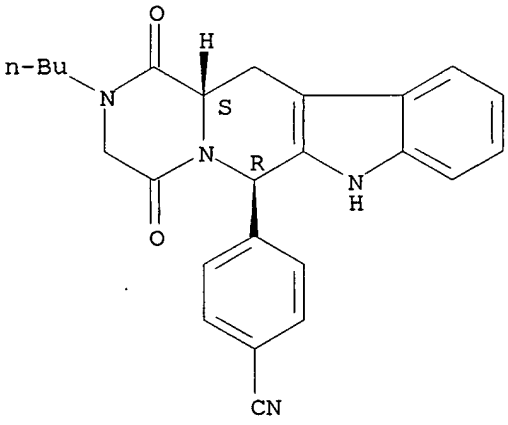
RN 171488-68-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-hydroxy-3-methoxyphenyl)-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



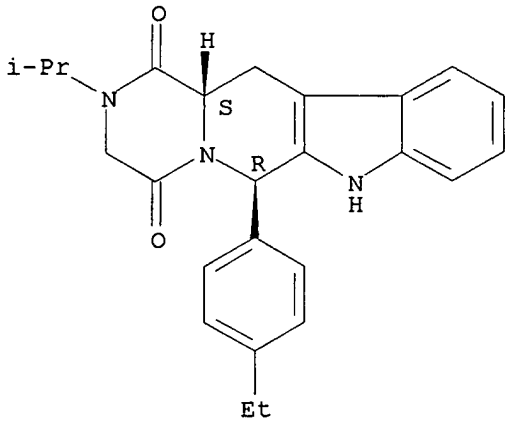
RN 171488-69-0 CAPLUS
CN Benzonitrile, 4-(2-butyl-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-6-yl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



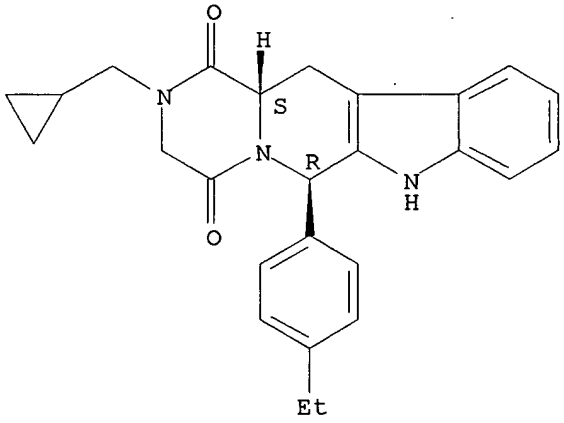
RN 171488-70-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(4-ethylphenyl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



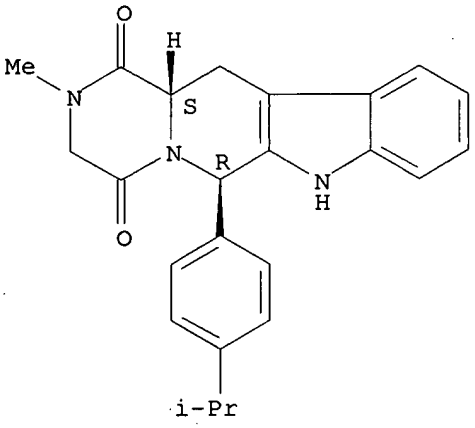
RN 171488-71-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-6-(4-ethylphenyl)-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



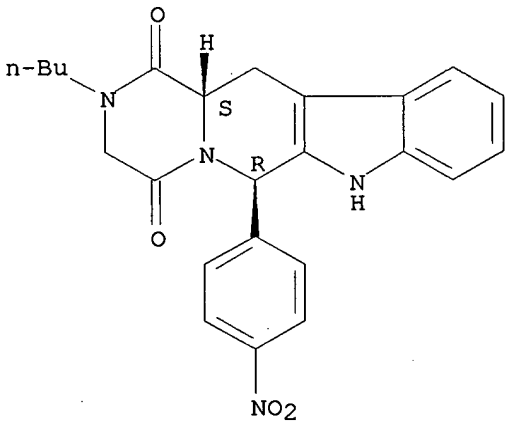
RN 171488-72-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-[4-(1-methylethyl)phenyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



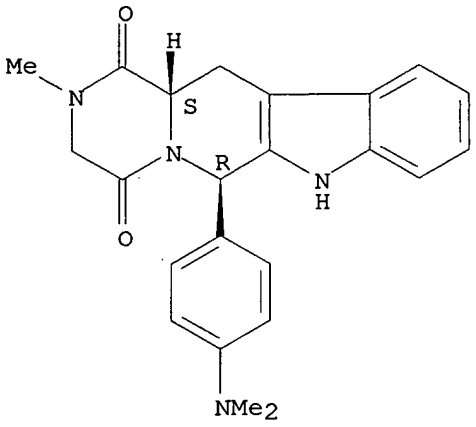
RN 171488-73-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(4-nitrophenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



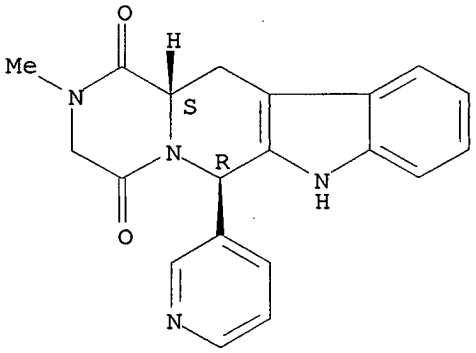
RN 171488-74-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-[4-(dimethylamino)phenyl]-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



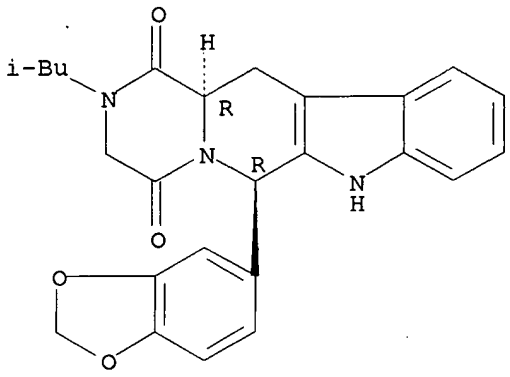
RN 171488-75-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-methyl-6-(3-pyridinyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



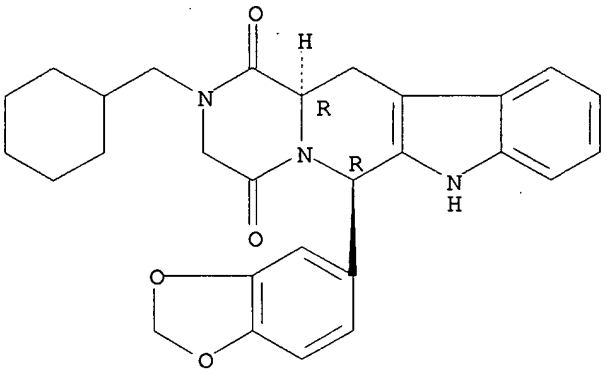
RN 171488-76-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-methylpropyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



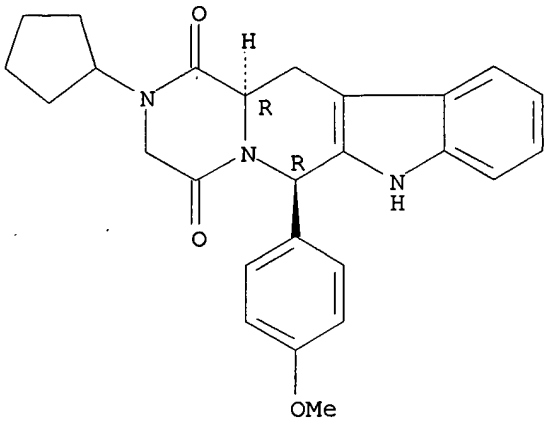
RN 171488-77-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(cyclohexylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



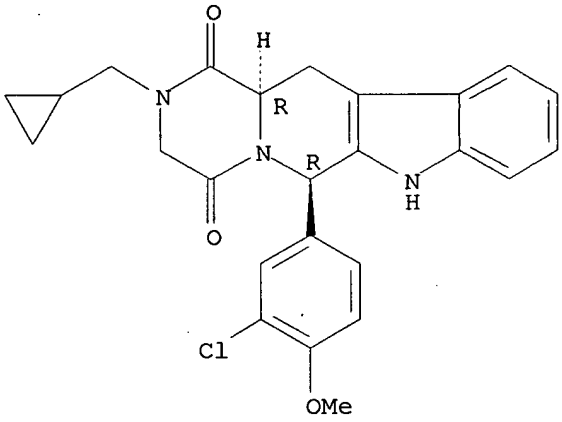
RN 171488-78-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-cyclopentyl-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



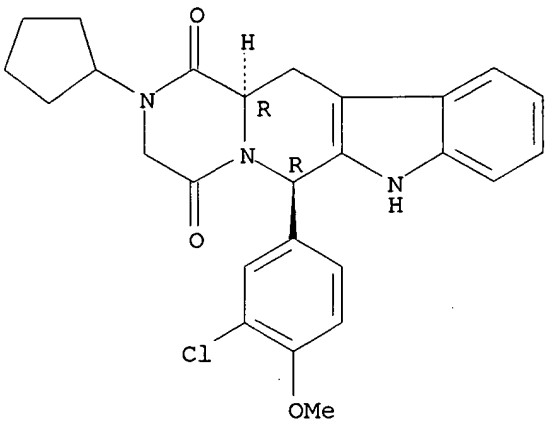
RN 171488-79-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3-chloro-4-methoxyphenyl)-2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



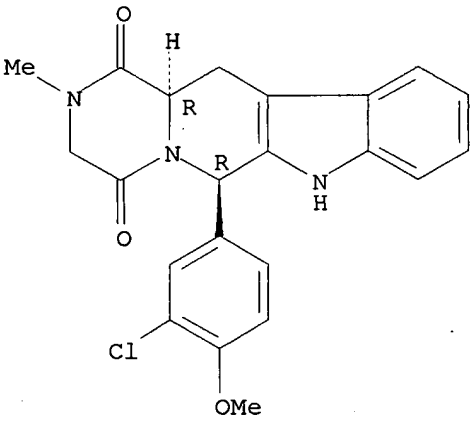
RN 171488-80-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3-chloro-4-methoxyphenyl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



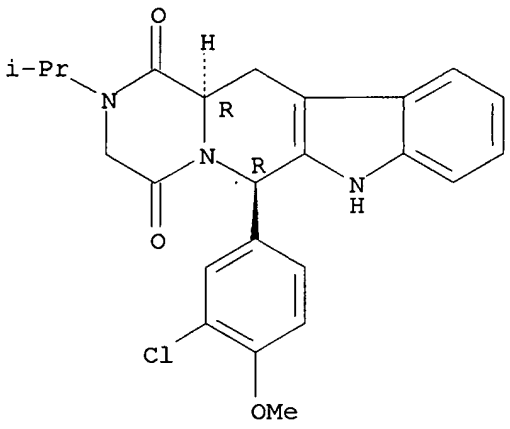
RN 171488-81-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3-chloro-4-methoxyphenyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

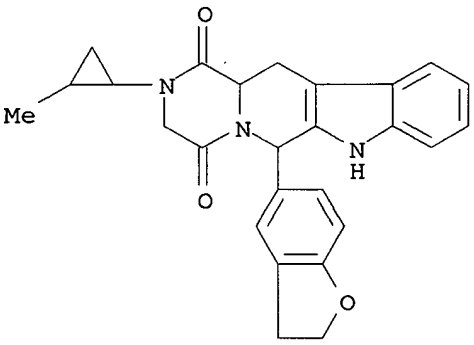


RN 171488-82-7 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3-chloro-4-methoxyphenyl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

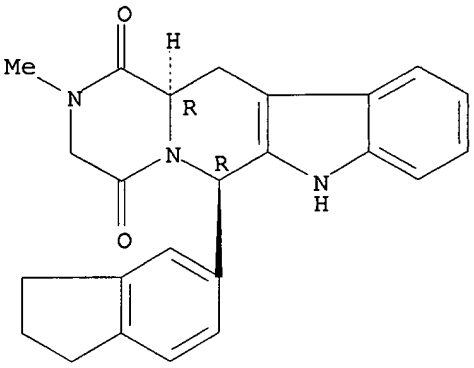


RN 171488-83-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(2,3-dihydro-5-benzofuranyl)-2,3,6,7,12,12a-hexahydro-2-(2-methylcyclopropyl)- (9CI) (CA INDEX NAME)



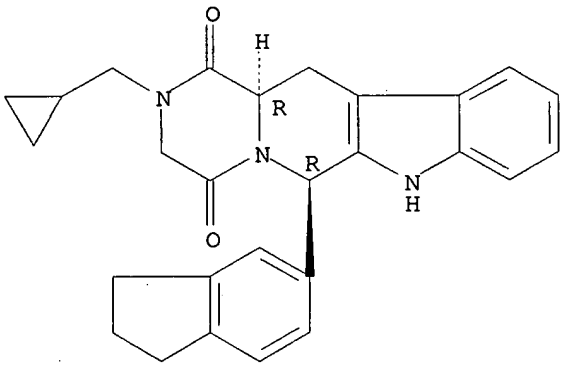
RN 171488-84-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(2,3-dihydro-1H-inden-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



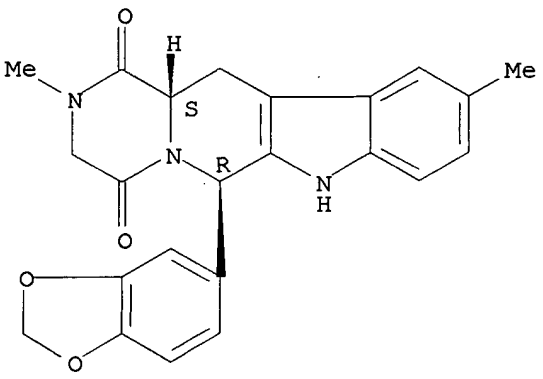
RN 171488-85-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-(cyclopropylmethyl)-6-(2,3-dihydro-1H-inden-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



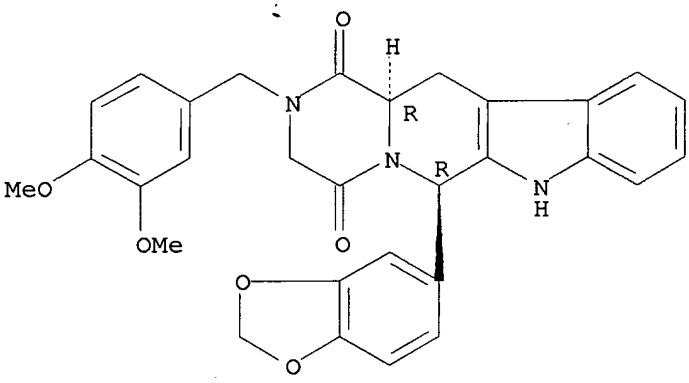
RN 171488-86-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,10-dimethyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



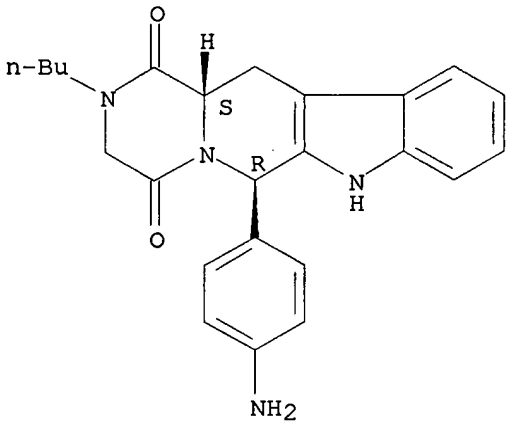
RN 171488-87-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[(3,4-dimethoxyphenyl)methyl]-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



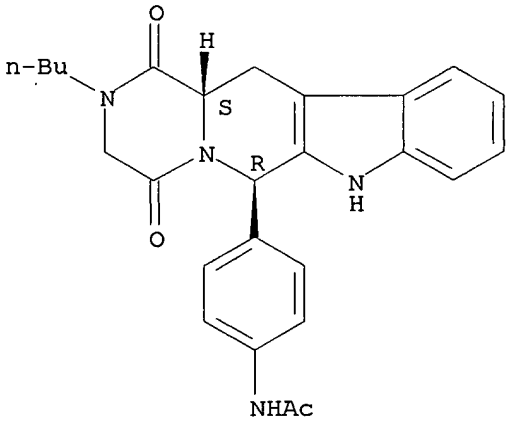
RN 171488-88-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(4-aminophenyl)-2-butyl-2,3,6,7,12,12a-hexahydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



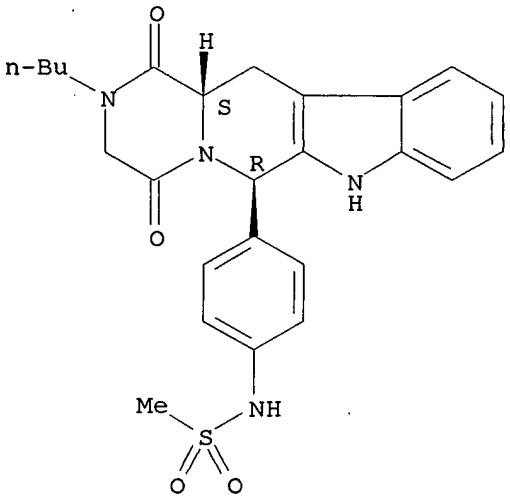
RN 171488-89-4 CAPLUS
CN Acetamide, N-[4-(2-butyl-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-6-yl)phenyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



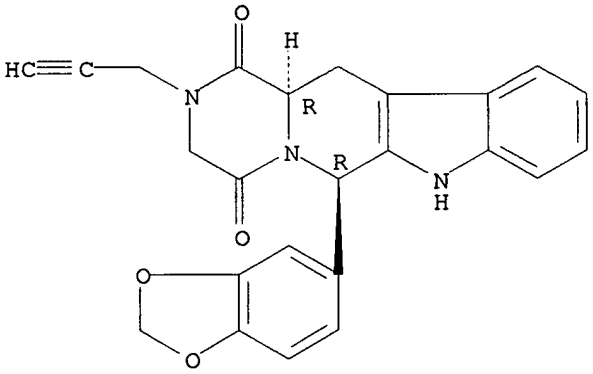
RN 171488-90-7 CAPLUS
CN Methanesulfonamide, N-[4-(2-butyl-1,2,3,4,6,7,12,12a-octahydro-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-6-yl)phenyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



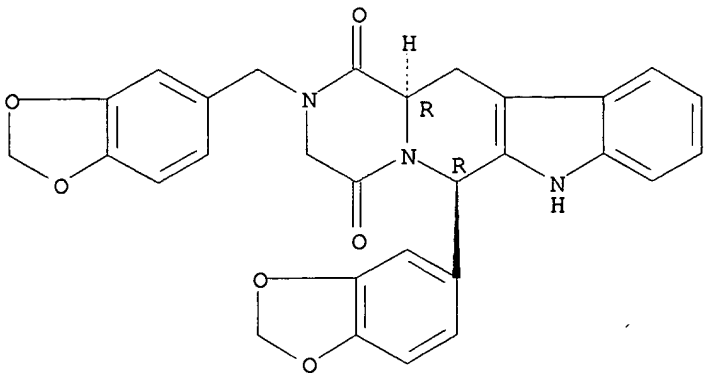
RN 171488-91-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-propynyl)-,
(6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



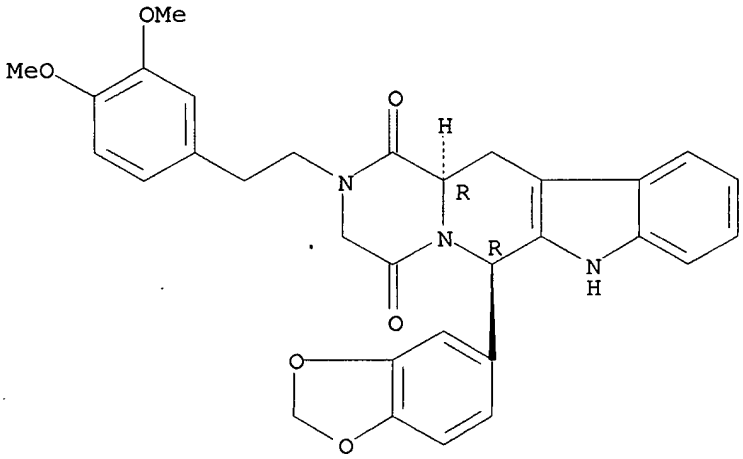
RN 171488-92-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(1,3-benzodioxol-5-yl)-2-(1,3-benzodioxol-5-ylmethyl)-
2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



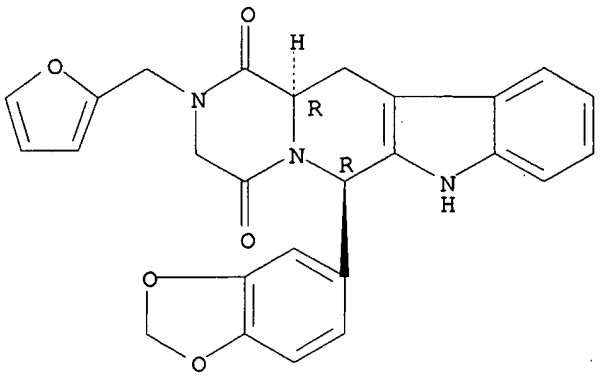
RN 171488-93-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-[2-(3,4-dimethoxyphenyl)ethyl]-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



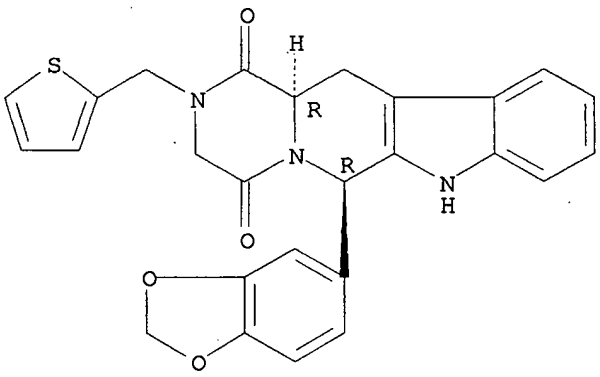
RN 171488-94-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-(2-furanylmethyl)-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



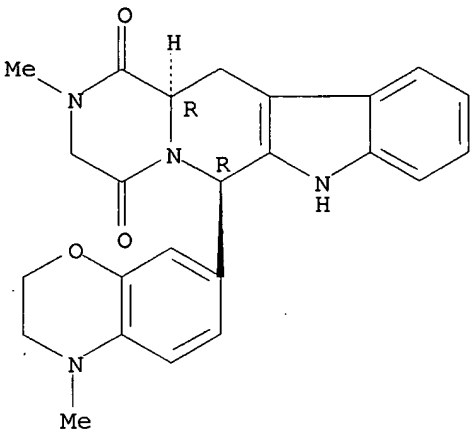
RN 171488-95-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(2-thienylmethyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



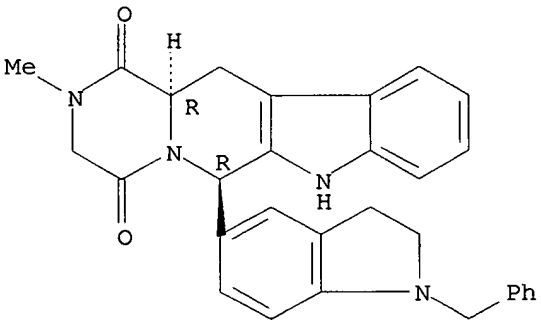
RN 171488-96-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(3,4-dihydro-4-methyl-2H-1,4-benzoxazin-7-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



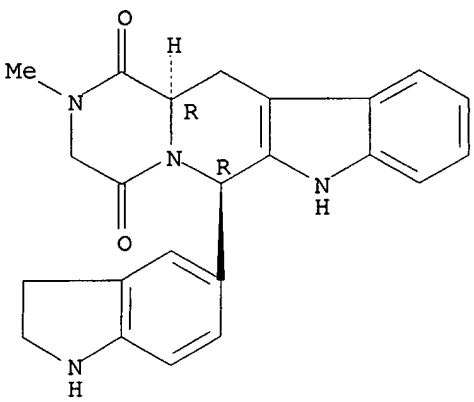
RN 171488-97-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-[2,3-dihydro-1-(phenylmethyl)-1H-indol-5-yl]-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



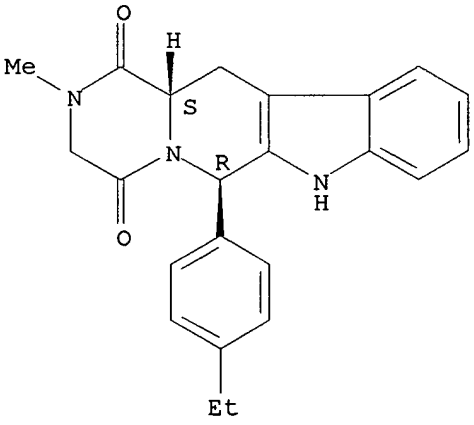
RN 171488-98-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(2,3-dihydro-1H-indol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



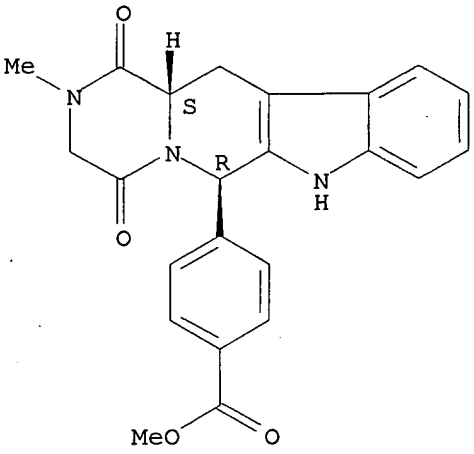
RN 171488-99-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(4-ethylphenyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



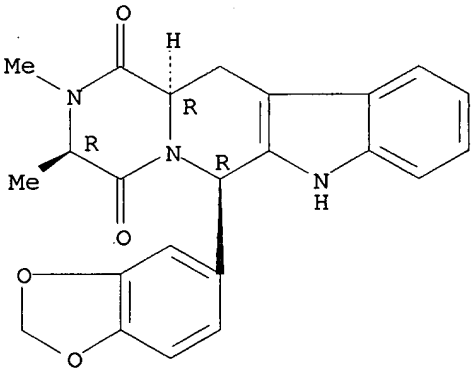
RN 171489-00-2 CAPLUS
CN Benzoic acid, 4-(1,2,3,4,6,7,12,12a-octahydro-2-methyl-1,4-dioxopyrazino[1',2':1,6]pyrido[3,4-b]indol-6-yl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



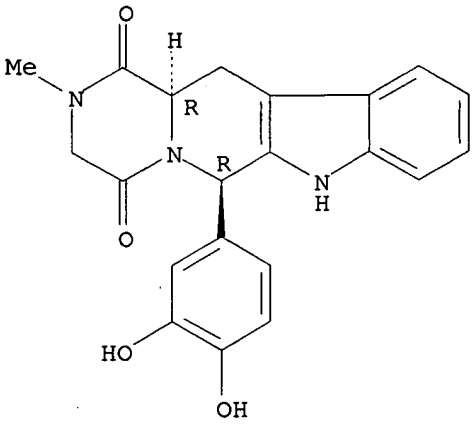
RN 171489-02-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-,
[3R-(3.alpha.,6.alpha.,12a.beta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



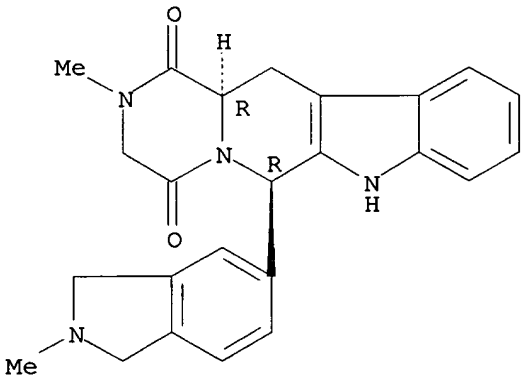
RN 171489-03-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(3,4-dihydroxyphenyl)-2,3,6,7,12,12a-hexahydro-2-methyl-,
(6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



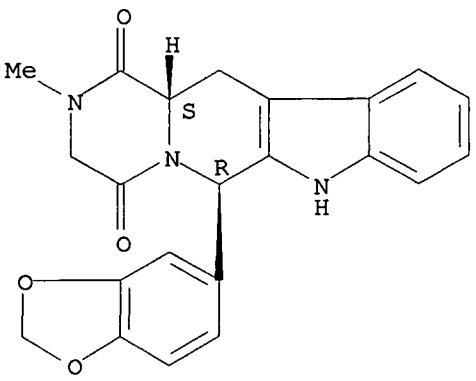
RN 171489-04-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(2,3-dihydro-2-methyl-1H-isoindol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



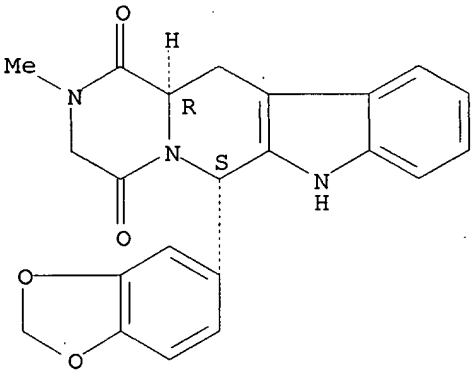
RN 171596-27-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



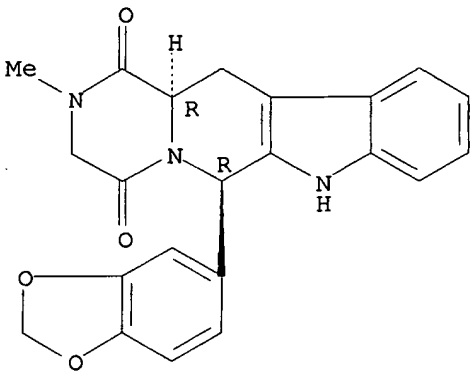
RN 171596-28-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



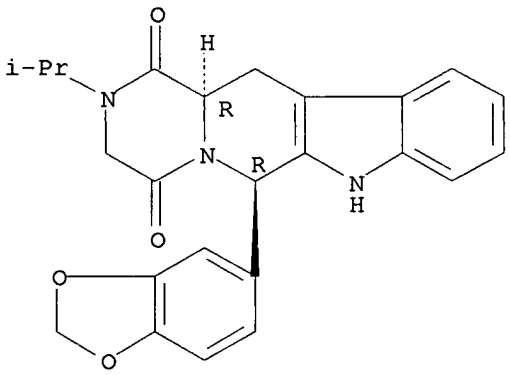
RN 171596-29-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



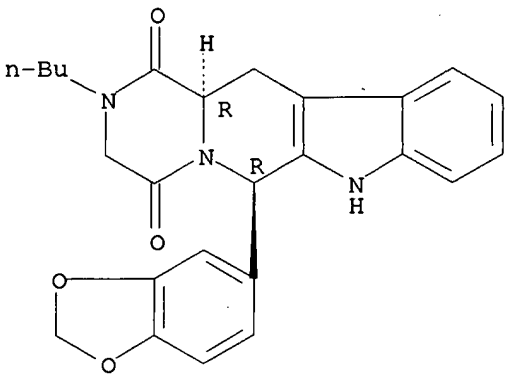
RN 171596-30-8 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2-(1-methylethyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



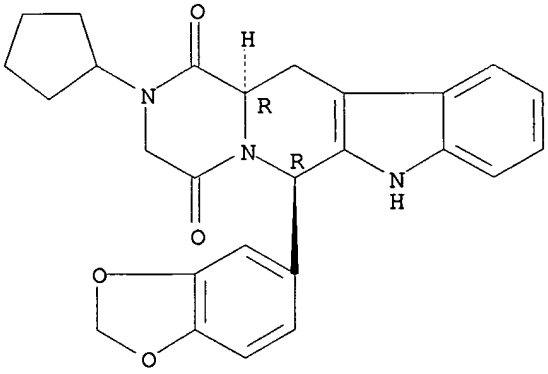
RN 171596-31-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2-butyl-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



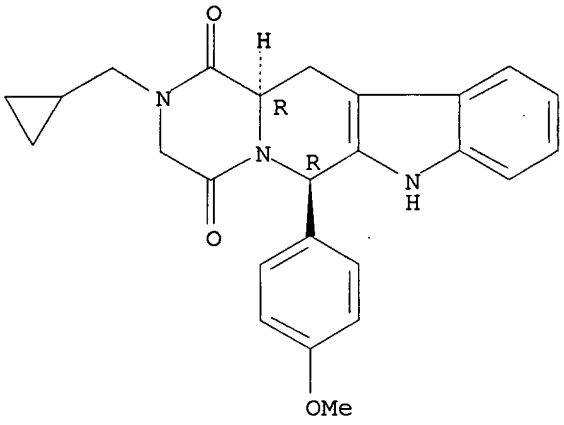
RN 171596-32-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
6-(1,3-benzodioxol-5-yl)-2-cyclopentyl-2,3,6,7,12,12a-hexahydro-,
(6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



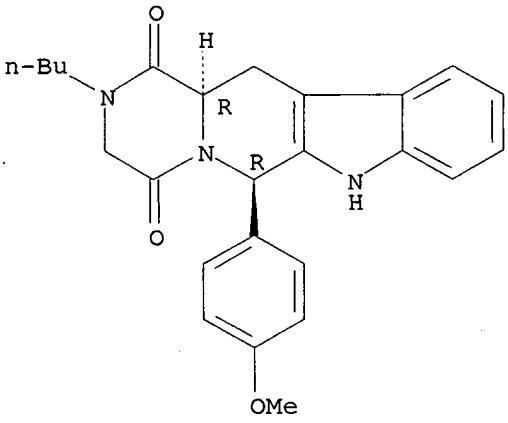
RN 171596-33-1 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
2-(cyclopropylmethyl)-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-,
(6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



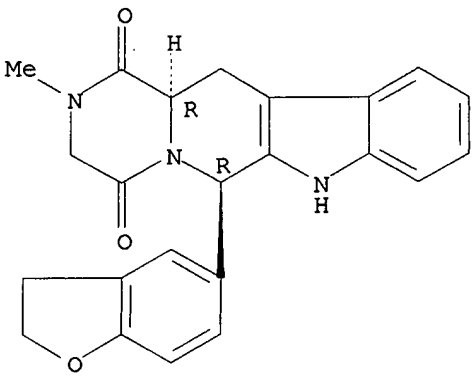
RN 171596-34-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-butyl-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



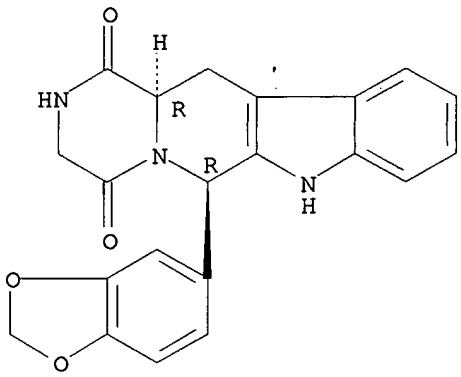
RN 171596-35-3 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(2,3-dihydro-5-benzofuranyl)-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



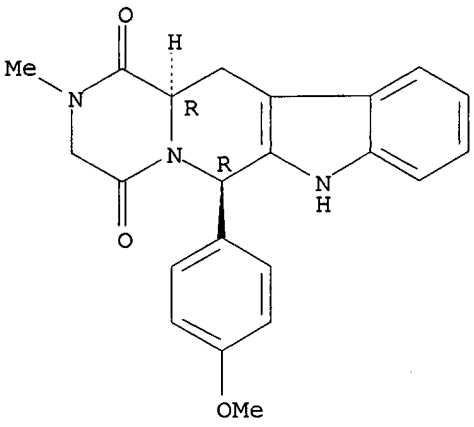
RN 171596-36-4 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



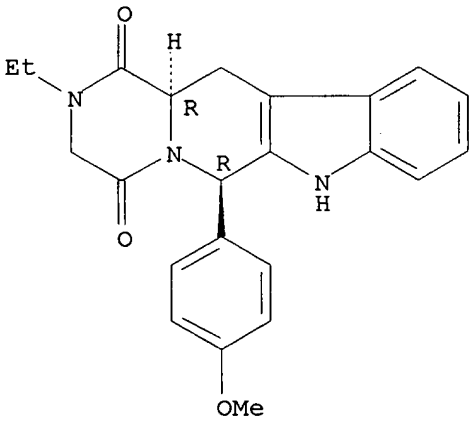
RN 171596-37-5 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



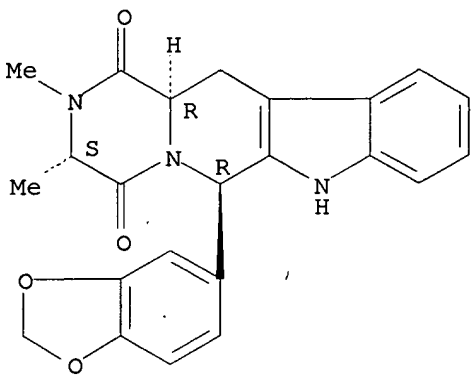
RN 171596-38-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-ethyl-2,3,6,7,12,12a-hexahydro-6-(4-methoxyphenyl)-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



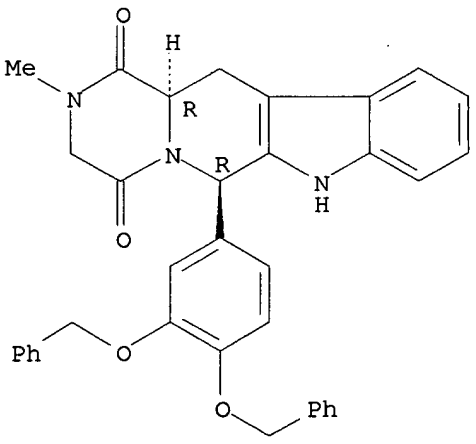
RN 171596-40-0 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-(1,3-benzodioxol-5-yl)-2,3,6,7,12,12a-hexahydro-2,3-dimethyl-, [3S-(3.alpha.,6.beta.,12a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



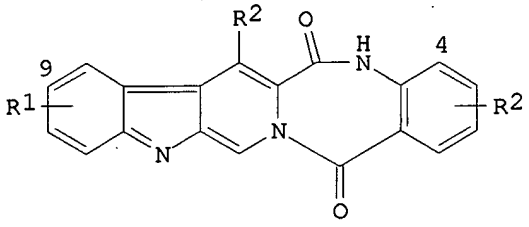
IT **171489-68-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of pyrazinopyridoindolediones as inhibitors of cyclic guanosine monophosphate specific phosphodiesterase)
RN 171489-68-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 6-[3,4-bis(phenylmethoxy)phenyl]-2,3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

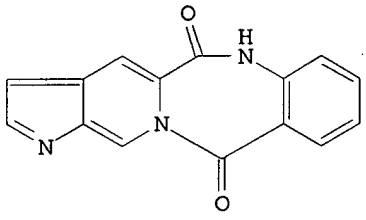


L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1990:631336 CAPLUS
DOCUMENT NUMBER: 113:231336
TITLE: Synthesis of .beta.-carboline-benzodiazepine hybrid molecules and their amputated analogs as novel ligands of the benzodiazepine receptor
AUTHOR(S): Dellouve-Courillon, Christine; Dorey, Gilbert; Poissonnet, Guillaume; Doisy, Xavier; Potier, Pierre; Dodd, Robert H.
CORPORATE SOURCE: Inst. Chim. Subst. Nat., CNRS, Gif-sur-Yvette, 91198, Fr.

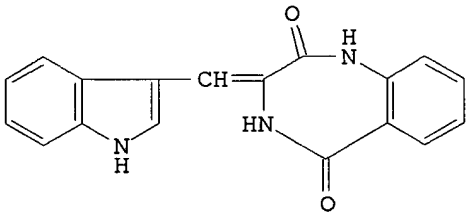
SOURCE: Tetrahedron (1990), 46(9), 3245-66
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



II



III

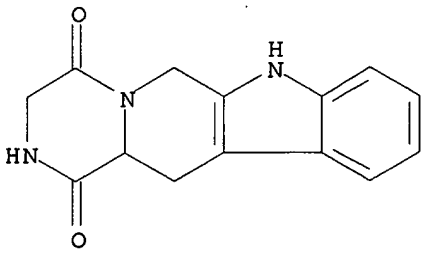
AB The title compds. I (R = 2-Cl, 3-Cl, 4-Cl, 4-OMe, R1 = R2 = H; R = R2 = H, R1 = H, 10-OMe, 9-OCH2Ph; R = R1 = H, R2 = OEt; R = H, R1 = 9-OCH2Ph, R2 = OCH2OMe) and the analogs II and (E)- and (Z)-III were prepd. Only I (R = H, 2-Cl, R1 = R2 = H) showed high affinity for the benzodiazepine receptor. II and III showed no significant binding activity.

IT **130473-22-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of)

RN 130473-22-2 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-, (.+-.)- (9CI) (CA INDEX NAME)

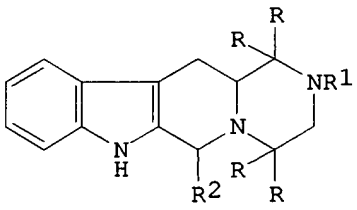
Racemate.



L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 1997 ACS

ACCESSION NUMBER:	1977:171497 CAPLUS	
DOCUMENT NUMBER:	86:171497	
TITLE:	Tetracyclic compounds	
PATENT ASSIGNEE(S):	Council of Scientific and Industrial Research (India), India	
SOURCE:	Brit., 9 pp. CODEN: BRXXAA	
	NUMBER	DATE
PATENT INFORMATION:	GB 1454171	761027
APPLICATION INFORMATION:	GB 73-44002	731019
DOCUMENT TYPE:	Patent	
LANGUAGE:	English	

GI



I

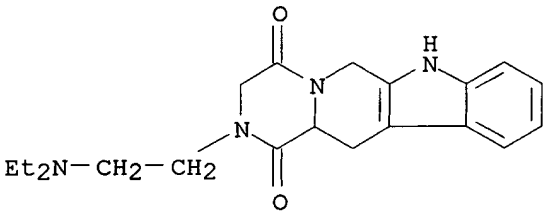
AB Thirty-one 2-substituted 1,2,3,4,6,7,12,12a-octahydropyrazino[1',2':1,6]pyrido[3,4-b]indoles I [R = H, R2 = O; R1 = aroylalkyl, arylhydroxyalkyl, hydroxyalkyl, oxoalkyl. aminoalkyl, Me, PhCH2CO, Ph(CH2)2, benzodioxanylmethyl, PhOCH(OH)CH2, NC(CH2)2, HO2C(CH2)2, EtO2C(CH2)2; R2 = H, Me] were prepd. from alkyl 1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylates by 2 main methods. The 1st involved successive acid-catalyzed condensation with ethylenimine (II), (if necessary) LiAlH4 redn., and introduction of 2-substitutents. The 2nd involved successive treatment with haloacetyl halides and primary amines. Thus, I [R = R2 = H, R1 = p-FC6H4CO(CH2)3] (III) was prepd. from Me 1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylate (IV) by refluxing with IV.HCl and II in EtOH 48 h followed by LiAlH4 redn. in THF and treatment with p-FC6H4CO(CH2)3Cl in DMF contg. Na2CO3 and NaI 36 h at 80.degree.. I show strong tranquilizing and hypotensive activity. Animal tests on III are reported; III had LD50 values in

mice of 180 mg/kg i.p. and >1 g orally. III also shows antiemetic activity.

IT **55344-32-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(tranquilizers and hypotensive agent, prepn. of)

RN 55344-32-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 1997 ACS

ACCESSION NUMBER: 1976:405673 CAPLUS

DOCUMENT NUMBER: 85:5673

TITLE: 2-Substituted-1,2,3,4,6,7,12,12a-octahydropyrazino-[2',1':6,1]pyrido[3,4-b]indoles

INVENTOR(S): Saxena, Anil K.; Jain, Padam C.; Dua, Prithvi R.; Srimal, Rikhab C.; Dhawan, Bhola N.; Anand, Nitya; Singh, Gurbuksh

PATENT ASSIGNEE(S): Council of Scientific and Industrial Research (India), India

SOURCE: Can., 25 pp.
CODEN: CAXXA4

	NUMBER	DATE
PATENT INFORMATION:	CA 982132	760120
APPLICATION INFORMATION:	CA 73-172016	730523

DOCUMENT TYPE: Patent

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

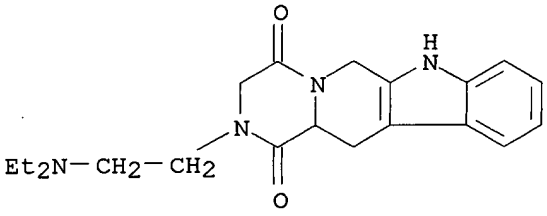
AB About 30 pyrazinopyridoindoles I (R = H, p-FC6H4CO(CH2)3, Me, 2-(4-pyridyl)ethyl, Et2NCH2CH2, PhCH2CO, EtO2CCH2CH2, MeCOCH2CH2, etc.; R1 = H, Me; X = H2) were prepd. from II. Thus II (R1 = H) was treated with ethylenimine and the I (R = R1 = H, X = O) reduced with LiAlH4 to give I (R = R1 = H, X = H2), which was treated with Cl(CH2)3COC6H4F-p to give I [R = p-FC6H4CO(CH2)3, R1 = H, X = H2] (III). The depressant ED50 of III was 0.5 mg/kg in the amphetamine hyperactivity test (i.p. mice).

IT **55344-32-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 55344-32-6 CAPLUS

CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro- (9CI) (CA INDEX

NAME)

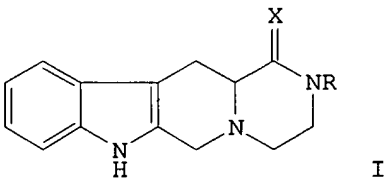


L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 1997 ACS

ACCESSION NUMBER:	1976:164842 CAPLUS
DOCUMENT NUMBER:	84:164842
TITLE:	2-Substituted-1,2,3,4,6,7,12,12a-octahydropyrazino[2',1':6,1]pyrido[3,4-b]indoles
INVENTOR(S):	Saxena, Anil K.; Jain, Padam C.; Singh, Gurbuksh; Dua, Prithvi R.; Srimal, Rikhab C.; Dhawan, Bhola N.; Anand, Nitya
PATENT ASSIGNEE(S):	Council of Scientific and Industrial Research (India), India
SOURCE:	U.S., 6 pp. CODEN: USXXAM

	NUMBER	DATE
PATENT INFORMATION:	US 3917599	751104
APPLICATION INFORMATION:	US 73-346468	730330

DOCUMENT TYPE: Patent
LANGUAGE: English
GI

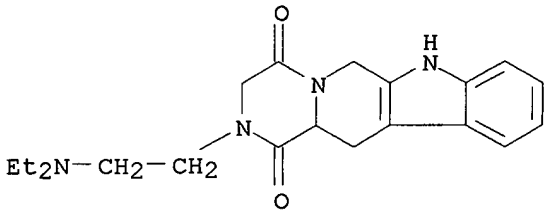


I

AB Me 1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylate was cyclized with ethylenimine to give the pyrazinopyridoindole I (R = H, X = O), which was reduced and alkylated to give I (R = Me. PhCH2CO, p-FC6H4CO(CH2)3, 4-pyridylethyl, etc., X = H2). At 2.5-35 mg/kg I [R = p-FC6H4CO(CH2)3, X = H2] (II) reduced spontaneous motor activity of mice in several tests. The LD50 of II was 180 mg/kg, i.p. in mice.

IT **55344-32-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 55344-32-6 CAPLUS

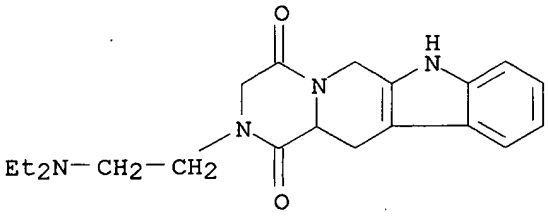
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1975:171057 CAPLUS
DOCUMENT NUMBER: 82:171057
TITLE: 1,2,3,4,6,7,12,12a-Octahydropyrazino[2,1:6,1]pyrido[3,4-b]indole depressants
INVENTOR(S): Saxena, Anil K.; Jain, Padam C.; Singh, Gurbukhsh; Dua, Prithvi R.; Srimal, Rikhab C.; Dhawan, Bhola N.; Anand, Nitya
PATENT ASSIGNEE(S): Gruppo Lepetit S.p.A.
SOURCE: Fr. Demande, 16 pp.
CODEN: FRXXBL

	NUMBER	DATE
PATENT INFORMATION:	FR 2223013	741025
PRIORITY APPLN. INFO.:	US 73-346408	730330

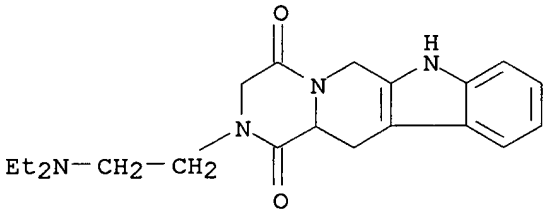
DOCUMENT TYPE: Patent
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB Pyrazinopyridoindoles I (R = oxoalkyl, hydroxyalkyl, aminoalkyl etc; X = H2, O; R1 = H, Me) (34 compds.) were prepd. for use as central nervous system depressants. Thus Me 1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylate was treated with ethylenimine and reduced with LiAlH4 to give I (X = H2, R = R2 = H), which was treated with p-FC6H4CO(CH2)3Cl to give I (X = H2, R = (CH2)3COC6H4F-4, R1 = H). The latter compd. had a ED50 in the Rotarod test in mice of 5.9 mg/kg i.p.
IT **55344-32-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 55344-32-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1975:156373 CAPLUS
DOCUMENT NUMBER: 82:156373
TITLE: 2-Substituted 1,2,3,4,6,7,12,12a-octahydropyrazino[2',1':6,1]pyrido[3,4-d]indole
INVENTOR(S): Saxena, Anil K.; Jain, Padam C.; Singh, Gurbakhsh; Dua, Fritzvi R.; Srimal, Rikhab C.; Dhawan, Bhola N.; Anand, Nitya
PATENT ASSIGNEE(S): Council of Scientific and Industrial Research (India)
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX

	NUMBER	DATE
PATENT INFORMATION:	DE 2333922	750130
APPLICATION INFORMATION:	DE 73-2333922	730704

DOCUMENT TYPE: Patent
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB Approx. 30 central nervous system depressants (I, R1 = e.g., H, Me, CH2CH2Ph, 4-pyridylethyl, CH2COC6H4F-p; R2 = H, Me; Y, Z = O, H2) were prepd. via cycloaddn. of II with ethylenimine (III) or ClCh2COCl and amines followed by redn. with LiAlH4. Thus, II was refluxed with III in EtOH for 24 hr to give I (R1 = R2 = H, Y = O, Z = H2) which was reduced with LiAlH4 in refluxing THF for 48 hr and treated with p-FC6H4CO(CH2)3Cl to yield I [R1 = (CH2)3COC6H4F-p, R3 = H, Y = Z = H2] (IV). IV has i.p. LD50 = 180 mg/kg in mice and orally LD50 = 700 mg/kg in rats.
IT **55344-32-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(depressant, prepn. of)
RN 55344-32-6 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1973:461395 CAPLUS
DOCUMENT NUMBER: 79:61395
TITLE: Agents acting on the central nervous system. 15. 2-Substituted 1,2,3,4,6,7,12,12a-octahydropyrazino [2',1':6,1]pyrido[3,4-b]indoles. New class of central nervous system depressants
AUTHOR(S): Saxena, Anil K.; Jain, Padam C.; Anand, Nitya; Dua, P. R.
CORPORATE SOURCE: Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, India
SOURCE: J. Med. Chem. (1973), 16(5), 560-4
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 2-[4-(4-Fluorophenyl)-4-oxobutyl]-1,2,3,4,6,7,12,12a-octahydropyrazino[2',1':6,1]pyrido[3,4-b]indole (I) [41510-23-0] and related compds. showed depressent properties in rats and mice. I produced 60% inhibition of amphetamine-induced hyperactivity in mice at 0.6 mg/kg i.p., decreased forced motor activity in mice by 50% at 7.5 mg/kg i.p., produced 50% inhibition of conditioned avoidance responses in rats at 0.15 mg/kg i.p., and counteracted amphetamine toxicity in mice by 50% at 3.5 mg/kg i.p., and was thus more potent than chlorpramazine. 2-[4-(4-Fluorophenyl)-4-hydroxybutyl]-1,2,3,4,6,7,12,12a-octahydropyrazinol[2',1':6.1]pyrido[3,4-b]indole [41510-24-1], and 2-(3-hydroxybutyl)-1,2,3,4,6,7,12,12a-octa-hydropyrazino[2',1':6,1]pyrido[3,4-b]indole [41510-25-2] were also highly active depressants. I was prepd. by converting the known dl-1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylic acid [41509-88-0] to the Me ester, reacting with ethyleneimine [151-56-4] to yield dl-1-oxo-1,2,3,4,6,7,12,12a-octahydropyrazino[2,1':6,1]pyrido[3,4-b]indole [41509-89-1], reducing the keto group with LiAlH4, and reacting at N-2 with the appropriate chloride.

IT **42021-19-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 42021-19-2 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2-[2-(diethylamino)ethyl]-2,3,6,7,12,12a-hexahydro-, (.+-.)- (9CI) (CA INDEX NAME)

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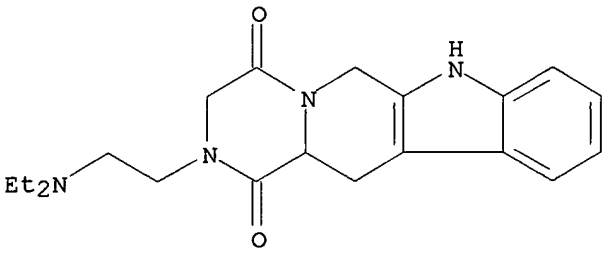
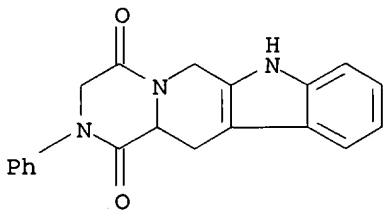


L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1973:147995 CAPLUS
DOCUMENT NUMBER: 78:147995
TITLE: 1,2,3,4,6,7,12,12a-Octahydro-2-phenylpyrazino[2',1':6,1]pyrido[3,4-b]indoles and its intermediates
INVENTOR(S): Schulenberg, John W.
PATENT ASSIGNEE(S): Sterling Drug Inc.
SOURCE: U.S., 9 pp. Division of U.S. 3,644,384 (CA 76;140890j).
CODEN: USXXAM

	NUMBER	DATE
PATENT INFORMATION:	US 3717638	730220
APPLICATION INFORMATION:	US 69-831750	690609

DOCUMENT TYPE: Patent
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The pyrido[3,4-b]indole-3-carboxylate (I, R = H) was treated with ClCH2COCl to give I (R = COCH2Cl), which was treated with PhNH2 to give the pyrazino[2',1':6,1]pyprido[3,4-b]indole II (X = O). I (X = O) was reduced with LiAlH4 to give II (X = H2). II were psychomotor stimulants at 8-300 mg/kg.
IT **25478-29-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25478-29-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-phenyl- (8CI, 9CI) (CA INDEX NAME)

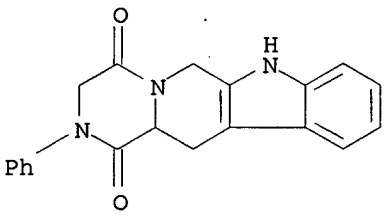


L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 1997 ACS

ACCESSION NUMBER: 1972:140890 CAPLUS
DOCUMENT NUMBER: 76:140890
TITLE: 2-(.alpha.-Haloacetyl)-1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylates and derivatives having useful psychomotorstimulant properties
INVENTOR(S): Schulenberg, John W.
PATENT ASSIGNEE(S): Sterling Drug Inc.
SOURCE: U.S., 7 pp.
CODEN: USXXAM

	NUMBER	DATE
PATENT INFORMATION:	US 3644384	720222
APPLICATION INFORMATION:	US 69-831750	690609

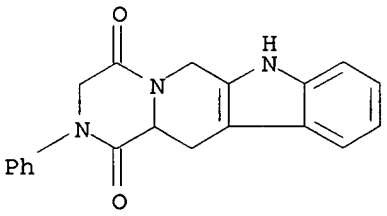
DOCUMENT TYPE: Patent
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Acylation of I (R = H) with ClCH2COCl in CHCl3 gave I (R = ClCH2CO), which with PhNH2 in EtOCH2CH2OH gave II. Redn. of II by LiAlH4 in THF gave III. II showed psychomotor depressant activity in mice; III was a psychomotor stimulant.
IT **25478-29-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25478-29-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione, 2,3,6,7,12,12a-hexahydro-2-phenyl- (8CI, 9CI) (CA INDEX NAME)



L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 1997 ACS
ACCESSION NUMBER: 1970:55396 CAPLUS
DOCUMENT NUMBER: 72:55396
TITLE: 1,2,3,4,6,7,12,12a-Octahydro-2-phenylpyrazino[2',1':6,1]pyrido[3,4-b]indole
AUTHOR(S): Schulenberg, John W.; Page, Donald F.
CORPORATE SOURCE: Sterlin-Winthrop Res. Inst., Rensselaer, N. Y., USA
SOURCE: J. Med. Chem. (1970), 13(1), 145
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Et 1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylate was treated with ClCH2COCl and heated with PhNH2 to give I (R2 = O),

which was reduced with LiAlH4 to the title compd. (I, R = H). In contrast to oxypertine, 1 mg/kg I (R = H) caused a 91% increase in t he spontaneous activity of mice and showed no central nervous system dep ressant activity.

IT **25478-29-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25478-29-9 CAPLUS
CN Pyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione,
2,3,6,7,12,12a-hexahydro-2-phenyl- (8CI, 9CI) (CA INDEX NAME)



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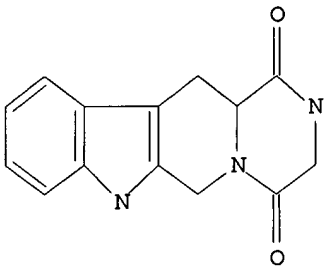


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